

- please note
- users in the use of large character inkjet printing equipment, please read this manual, so as to avoid unnecessary losses.

Catalog

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Chapter 1 Product Overview

Large character portable printer equipment, is manufactured by inkjet technology, can meet the needs of a large number of industrial products printing. In cartons, wood, plastic, film, metal, glass and other materials on the surface of spray printing, to provide users with low cost, high life jet printing.

HK3.1s software can support up to 100 print information and editing and storage of 64 user-defined graphics. If the information is stored more than 100, the USB extension interface can provide users with more information storage. HK3.1s software uses Chinese friendly interface, code commonly used as Chinese characters input can be just as convenient as the input alphabet.

Users can choose a variety of specifications of the nozzle 16 dot matrix (deflection machine word height of 50 mm), the lattice (the highest word height of 14 mm), the lattice (the highest word height of 20 mm) of 7. Meet the needs of the production of various types.

Portable equipment is not limited by the production line, users can use anytime, anywhere. The second chapter uses the description

Power Supply:

1 charge input 100V-240VAC, 50 hz. Output 25.2V, 2A.

2 power: 100 watts.

Environmental requirements:

1 temperature: 5-45.

2 humidity: 10%-90%, no condensation.

3 avoid dust environment.

4 avoid close to strong electromagnetic interference, such as motor.

Safety instruction:

1 the use of inkjet printer ink, cleaning liquid for flammable items, please in the printer configuration within 10 meters of fire extinguisher.

2 ink harmful to the human body, should avoid entering the human body. If should see a doctor as soon as possible into the oral cavity.。

3 please contact with the ink system, wear protective glasses, in order to prevent ink splashed into the eyes; if the ink into the eyes, immediately rinse with water, and to the hospital for medical treatment.

4 in contact with the ink system and nozzle, the use of protective gloves.

Equipment maintenance:

1 only the maintenance engineer of the manufacturer or the manufacturer authorized by the manufacturer can repair the electrical part of the system.

2 ink and related chemicals equipment, are specially research and long-term testing of fine chemical products, the use of substitutes may lead to equipment failure, affecting the safety of production, and may cause irreparable damage to the device.

Charging equipment:

1 the battery can be charged for 4 hours, and can be used for a period of 20 hours. When the battery power is used, please charge it in the off state. Otherwise it will burn the charger

The third chapter first use

One

Because the new product before use, internal piping system filled with ink cleaning fluid, will affect the normal printing, so the ink perfusion should first exhaust tube internal cleaning fluid through the filling nozzle, the nozzle of the ink filled tube, remove all bubbles and cleaning liquid. Due to the precision of the nozzle pipe system, the first time the ink and the removal of cleaning fluid will be slow, please be patient, ten to thirty minutes of operation is normal. Specific steps are as follows:

(1) placing cups or non pilling cloth at the front of the nozzle below, the gushing and dripping ink will not splash elsewhere.

(2) boot, press the "cleaning key" to clean the nozzle and valve, to observe whether the nozzle is smooth, the initial removal of the pipeline cleaning fluid, ink jet scattered.

(3) continue to get rid of cleaning cleaning liquid in the ink system.

(4) stop printing, with no pilling cloth to wipe off the surface of the ink nozzle. (do not rub hard to prevent the fiber from entering the nozzle).

Take a piece of white paper. Edit good information (refer to chapter fifth). In the condition of photoelectric synchronization, the synchronous wheel contacts the white paper to press the handle switch. If there are any defects, repeat the spray several times until the quality is good.

The fourth chapter routine maintenance

In order to maintain large character inkjet printing system in good working condition, need to start to do the simple maintenance or use of printing quality difference in every time.

In every shutdown, please according to the disabled is expected to shut down the length of time, using different methods, if the shutdown time within three days, the controller can directly shut down, do not wipe the nozzle, if a longer period of time, with special cleaning fluid cleaning nozzle inside. If the shutdown time of more than ten days, please the ink using the cleaning liquid perfusion.

Note: pay attention to observe the ink bottle height, it is best not to use the system in the state of ink.

1 boot print:After each weekend shutdown (within 72 hours), to restart, may be due to dry ink in the nozzle surface, caused by faults or dots ranging in size, with a clean liquid wetting front of the nozzle surface, wait a few minutes after the dissolution of ink.

2 nozzle cleaning:

1 directly on the controller keyboard on the "cleaning button", you can also adjust the print interface in the "cleaning" items for single road cleaning.

2 if there are problems, please put the nozzle up, in front of the nozzle drops a small amount (3-5 ml) cleaning liquid, soak for a while, and then print the test.

3 if there is no longer in use, with a plastic bag over the head, the mouth of the bag, to prevent the dust from entering into.

3 nozzle cleaning:

If the information is incomplete, the ink flow and bifurcation are generally caused by the pollutants in the nozzle. In most cases, the cleaning solution can be used to solve the problem. If the nozzle in front of the cleaning nozzle can not be restored, please follow the following steps to clean the nozzle.

1 shutdown state, first open the ink bottle pressure relief, and then clean in a dust free environment, the nozzle is placed on top of the nozzle height is higher than the controller. Unscrew the screws on the front panel of the shower nozzle and remove the spray from the nozzle.

2 cleaning spray, spray on the attention of each hole is smooth, if not, please use the spray hole blocking and cleaning of molybdenum wire. To see where there is light

3 then the cleaning liquid injection nozzle valve slot, let the ink soak and melting in the cleaning agent, after one or two minutes and then rinse the cleaning liquid pouring, click.

4 install the spray plate, screw the screws.

5 check whether the information is complete, if the information is not complete, please repeat the above process.

Be careful:

1 cleaning nozzles must be carried out in a clean environment, the use of tools and cleaning liquid should ensure that no dust and no fiber pollution, otherwise it will block the nozzle, resulting in poor quality spray printing.

2 remove the nozzle must be carefully removed each part, if damaged, must be replaced.

3 only after the sprinkler installation and training of personnel to allow the above operations, the user is not part of the damage caused by the demolition of the company's warranty liability within the scope of the provisions.

4 filling ink:

1 turn off the power supply, open the ink bottle cap.

2 perfusion of ink, ink bottle level distance of 4 cm.

3 twist on the ink bottle cap. stay

Note: if the ink is poured into the ink, the ink tube will have a gas, need to boot print 5-10 minutes

5 deflection adjustment

Turn on the deflection, and then adjust the nozzle to the appropriate angle, according to the angle of the nozzle to adjust the deflection and deflection, until the print font vertical. Refer to chapter fifth "Edit Print parameters"

The fifth chapter sets the print information

Large character system can preset 100 print information, print the correct number can be printed. Information number 00, 01, 02,... 63 pieces of information. Printable characters include numbers, uppercase and lowercase letters, commonly used Chinese characters and some commonly used symbols, in addition to the user can customize the 64 graphics.

Maximum allowable edit length is 144 (7*8 dot matrix ASCII) characters or 72 Chinese characters (16*16 dot matrix).

Key distribution and key definitions.

5.1 5.2

1 access to information editing.

(see Figure 5.1), when you are waiting to print, press the "Tad" button once, and the system will enter the "Edit" operation.

2 select the information you want to edit.

(see Figure 5.2) press the "number" button to see a black block cursor on the top left corner of the screen, and enter the number of information you want to edit,... 099, press the "confirm" key, the message will be transferred and displayed on the screen. You can also press the green arrow keys up and down keys. If there is no content, an empty message will be displayed. Press any key to enter the edit state.

3 edit information.

With the lower right corner of the keyboard green arrow keys can choose the location of the input, the input characters can be.

First: there will be a large cursor on the screen, this time, you can change the font button to change the size of the cursor

3.1 press the "Chinese" switch key, in the English input state can be arbitrary input numbers and letters, in the state of the Chinese characters can be input

3.2 in the 1, 2 font small cursor can enter the 7 X 5 dot matrix in English,

numbers, graphics, variables.

Standard font for 7 X dot matrix font, printing height of up to 20 mm, the maximum length of each message is a character of 144 ASCII. (7*5 dot matrix)

In 5, large fonts under the cursor can edit the input of 16 X 16 dot 12 X 14 dot Chinese characters, letters and graphics, variables, the highest print height of 50mm (according to different nozzle types, different font height), the maximum length of 72 characters each message. (16*16 dot matrix)

3.3 in the English input state press "Shift" button to see the key on the lights, and then press the other key will enter the top left corner of the character. Press the "Shift" button and press "1" to enter the ":".

3.4 in the English input state press the "ALT" button to see the key on the lights, and then press the other key will enter the key in the lower left corner of the word Fu.

3.5 press the left and right arrow keys in the lower right corner of the keyboard to move the cursor.

4 edit input variables.

Six point one

Variable refers to the print information to automatically change the part of the variable definition, see Chapter sixth.

(Figure 6.1) in the "edit information" state on the "variable" button, the upper right corner of the screen will appear "00 variables", the number of input variables into the need, and then press the "" button, the selected variables.

A. if you have more than 144 characters in total, you will not be able to insert the selected variable. You will need to delete the extra characters to make sure there is enough space left.

The B. variable is displayed at the time of the actual date or the specific date after the offset calculation.

5 enter custom graphics.

A. custom graphics editing (see Chapter seventh).

B. in the "edit information" state on the "graphic" button, the upper right corner of the screen will appear "figure 00" and then enter the number into the graphic, and then press the "" button, the selected graphics is.

For example: print the following information:

Qualified 2012/01

086-88888888

1 first input Chinese characters:

Six point two

(as shown in Figure 6.2), "HE" Pinyin, there will be "close" word, according to the corresponding number confirmed.

"Lattice" Pinyin GE, the emergence of "lattice" word, according to the corresponding number confirmed.

Note: 16 Chinese characters are input under the big cursor and can not be combined with phrases.

2 Edit Digital section:

A. press the "font switch key" to switch the cursor to the upper cursor.

Press the "variable" key to enter 01, 02, and 03, respectively.

B. press the "font switch" button, switch the cursor position, in the second line of the input 086-88888888, press the "return key" or F9 call the "save menu", press the "confirm key" to save the changes.

3: the print information printing, the printing effect as shown in Figure 16 lattice nozzle.

6 transfer printing information.

Seven point one

(Figure 7.1) in the print interface, wait for print state press the number key to enter the number of information you want to print by pressing the confirmation key. You can also press the green key to the left and right. Press the print button to start printing.

7 Edit Print parameters.

Seven point two

(Figure 7.2) in the print interface, "waiting to print", click "OK" button below the screen "wide" and "space" and "ink", "direction" and "delay", "line" and "change" and "reverse photoelectric" and "synchronous" cleaning "and" offset "and" bias "and" deflection "and" pressure "to enter the parameter editing. Press the "OK" button to complete the edit and press the "back" button

1, word width setting

Adjust font width, adjusting range 001 ~ ~ 999. The device defaults to 050". Handheld devices generally between 6-9.

2, gap setting

Used to adjust the interval between each message, in 10 milliseconds.

3, ink point set

Used to adjust the size of each droplet, 25 ~ 100 adjustable. The device defaults to 50".

4, direction parameters Can be set to reverse

print 0 - print direction from left to right, the 1 - print direction from right to left.

5, delay parameters

This parameter can be adjusted from the photoelectric sensor to trigger nozzle print delay time of the first character, adjust this parameter, can change the print information in print on the surface of the front and rear position, adjust the range of 0000 ~ 9999 (unit: Ms).

When using the synchronizer, the delay represents the distance of the synchronizer, which is typically set to around 0000, to wait for the trigger to be started from the sensor.

6, the number of parameters

In the "open" state, adjust this parameter can be changed after the photoelectric trigger current print information continuous printing times, adjusting range 1-9, generally set to 1;

8, upside down

Set upside down "0" or "1"

9, photoelectric and synchronization

Adjust the switch state of the photoelectric sensor and the synchronous sensor.

10, cleaning

Adjust the ink cleaning for single channel cleaning.

11, partial amount

Adjust the deflection according to the angle of the spray head.

12, bias

Adjust right or left 0 or 1 depending on the nozzle.

13, deflection

Adjust deflection switch status.

14, pressure,

Adjust the switch state of the pneumatic pump.

The sixth chapter editor variables

A large character system stores 15 variable formats:

- 01 Century (fixed format)
- 02 YY years (fixed format)
- 03 MM months (fixed format)
- 04 DD days (fixed format)
- 05 HH (fixed format)
- 06 MM min (fixed format)
- 07 SS seconds (fixed format)
- 08 Century (offset format)
- 09 YY years (offset format)
- 10 MM months (offset format)
- 11 DD days (offset format)
- 12 shift
- 13 XXXX (counter number, fixed format, set in the counter)
- 14 XXXXXXXX (8 bit counter, fixed format, set in counter)
- 15: offset (edit in days, maximum 9999)

Only 12131415 of the variables can be edited. When printing, the system will automatically calculate and print. The edit of variable 14 can change the upper and lower limits, the current value, and the value of the step size.

Note: in the variable if needed in the middle of {:}, press the SHIFT button to bring up the keyboard press 1.

Description of variable 12: 12 interface in 0000

T1 0000 T2

0000 T2 0000 T4

Example: time: T1 T2 T4 T4

0000060012001800

Shift: 1234

If the clock time is now 9:00, adjust the variable

12 print to 1

If the clock time is now 21:00, adjust the variable

12 print to 4

(can be edited as: 0 - 9 or A - Z)

9.1 9.2

1 entry variable edit

(as shown in Figure 9.1), "wait for print", press the return key to enter the main menu selection interface, select the "Settings" option, enter the variable settings"

2 select the variables you want to edit

(Figure 9.2) enter the number of variables to be

edited (enter the numbers 12, 13, 14, and 15)

3 enter the desired offset.

The offset value used for automatic printing products deadline and other parameters, such as two months, respectively, in the "production date" and "expiration date" behind the variable is called 01020304, 08091011, editor of the 15 variable parameters into the variable to 60 (a day or month / year). The following information will be printed: the screen displays "production date 2011 01 to 31 shelf life until the year of March 31, 2011"

Production date January 31, 2011 shelf life to March 31, 2011"

The seventh chapter edit graphics

10.1 10.2

(Figure 10.1, 10.2) in the main menu, select "information", "OK", enter the information interface. Select "Edit" and press OK to enter the edit interface. Enter the number you want to edit the graphic, and then set the height and width. 16 dot matrix nozzle height of 16, width of 0016,

7 dot matrix nozzle height of 07, width of 0008. Click the "Edit" button to enter the edit interface. For example, the height of 16, width 16 into the editing interface will appear after the box group 16*16 consisting of small cubes, each box represents a dot, according to the need to edit graphics. Place the square cursor on the small box that needs to be filled by pressing the OK button, fill in the black box, and then press OK to cancel. After editing, press "return" and "save"". Can also be directly read U disk. Insert the U disk (dealer provided file) input file name, and then "U disk read" press "OK"".

The eighth chapter password management

The system provides the user password function to prevent unauthorized use.

Directly into the management interface, you can choose to use or not to use passwords, as well as password management.

If you choose to use a password to boot, inkjet printer prompts the user password.

The ninth chapter host settings

In the main menu interface state, you can enter the corresponding lower state, complete the "clock", "counter", "sensor", "print mode" and "variables" and other system management.

10.1 set the clock Eleven point one

(Figure 11.1) in the main menu interface, enter the settings system. Into the clock settings, when the number of times that the cursor is covered by a block, indicating that in the "select state", you can press the keyboard at the bottom of the "direction" button to select the edit object. Once you have selected the edit object and press the "confirm" key once, there will be a cursor displayed in the edit object, indicating that it is in the "Edit state". Once the setting is finished, press the OK key once, and the system will return to the "select state"". Select Edit objects and edit them to complete the clock settings.

If the value entered is not valid, it will not be entered.

10.2 device detection

The device test state is used to detect the system's sensors and synchronizer to determine if they are in the normal state.

1 detecting photoelectric sensor

In the "device testing", the state is open, press the "confirm" key to enter the "photoelectric sensor"

The sensor can detect the working state of the sensor. When the sensor

is triggered once, the count plus 1.

2 detection of the synchronization device

In the "device testing", the state is open, press the "confirm" key to enter the "code synchronizer"

Under the sliding synchronous wheel, the working state of the synchronizer can be detected.

3 detection of pressure sensors

In the "device test", the state is open, press the "confirm" key to enter the pressure sensor

The pressure value and the upper and lower limits of the set pressure can be detected. The upper limit is 1350 and the lower limit is generally about 1250. Also in

Press the F5 interface to manually press the ink bottle.)

10.3 counter settings

Eleven point two

(Figure 11.2) the system enters the main menu state. Choose to enter the system settings, "variable settings", select the variable 14, press the "confirm" key to enter:

Upper limit: 99998000

Lower limit: 00000001

Current count value: 00501000 (move the block cursor to the current count value and press OK to change the count value

Step size: 01

Note: when the upper limit is set to 99998000, the print value is 99998000, the next value is a lower limit of 00000001

4, parameter setting

Twelve point one

(Figure 12.1) print mode: 0000 single information printing, consistent with each information parameters.

0001 single information printing, each information independent parameters.

0002 information to fight, each information parameters consistent.

0003 information play, each information independent parameters.

Number of hits: you can set the number of hits

The tenth chapter of the service

Manufacturers to provide users with perfect and efficient service. In order to facilitate the user to maintain equipment and reduce the cost of personnel exchanges, the following service users can be mailed, but should strictly abide by the provisions of the package mail, so as not to cause accidental loss.

1 when the user does not have the skilled personnel and the environment must be clean, recommended that users will send it back to the manufacturer of equipment maintenance.

Partial overhaul of A. nozzle

If the user for the quality of the printing factory to repair the sprinkler nozzle, please print the samples sent back together, and describe the maintenance process, in order to find fault causes.

And then according to the requirements of the maintenance part of the nozzle to clean the ink inside the syringe, into the cleaning fluid cleaning. (due to dry ink nozzle in the spray nozzle of the damage caused by the factory.)

Partial overhaul of B. controller.

The controller part of the equipment can be maintained only by the manufacturer's maintenance engineer or the maintenance personnel authorized by the manufacturer. If the user control problems need maintenance controller, users will be advised to send it back to the manufacturer controller maintenance. At the same time, the samples printed by the controller are sent back together, and the fault process is described in detail so as to find out the cause of the failure.

2 mailing equipment packaging:

Equipment packaging should provide adequate support and shockproof capacity, it is recommended that the packaging with the size of the equipment to match the carton or postal cartons. There should be at least 2 cm gap between the carton wall and the equipment and filled with flexible material.

● The eleventh chapter Problem solving help

This chapter describes the causes and solutions of some of the problems that may be encountered, the user may refer to the relevant sections of the operation or call the technical support department.

| phenomenon | Possible causes | Resolvent |
|--|--|---|
| Controller is not working properly | 1. accidental interference caused by the scene. | Turn off the controller power supply and restart after 30 seconds. |
| | 2. controller damage | Repair the local dealer, or send back to the factory. |
| Information and settings stored in the controller are missing. | 1. After the completion of the information editing is not prompted to save the steps. If it is found that only a certain set or edit information is lost, the other normal, more than the case. | Refer to the relevant part of the manual, or save it on the screen |
| | 2. The controller is subjected to electrostatic or electromagnetic interference and interference of the power supply system. Note: some of the interference caused by the accidental factors, not easy to find. | To minimize the interference source near the controller to avoid the use of the same power supply with large power equipment. Re set the relevant content. Note: some of the interference caused by the accidental factors, not easy to find. |
| | Controller partial damage. As long as the shutdown, all settings are lost. | The equipment will be sent to factory maintenance. |

| | | | |
|--------------------|----------------------|--|---|
| Partial print loss | Lack of a few points | There are foreign bodies on the front surface of the nozzle (dust, fiber, ink, etc.) | Using the cleaning liquid wet or no fiber cloth filter cleaning nozzle surface, also can flush. |
| | | Inside the nozzle, there is a dirt blocking or foreign body | ◦ Cleaning nozzle spray hole |
| | Not all out | Stop time is too long, cause internal dry ink nozzle. Increase ink flow resistance. | Return to factory maintenance |

Appendix 1 consumables and parts ordering

- 1、 part order shall indicate the product model, production date, factory number, part number.
- 2、 consumables order cycle for two weeks, parts ordering should notice one month ahead of dealers
- 3、 recommend the user to the local dealer order, in order to simplify the order process.

Some consumable ordering data list

| Category of goods | Name | Product number | Remarks |
|-------------------|---|----------------|------------|
| Ink | Black water-based ink | P/N HK-M210 | 250ML |
| | Black ink drying | P/N HK-M110 | 250ML |
| | Black ink drying | P/N HK-M122 | 250ML |
| | The red fluorescence quick drying ink | P/N HK-M123 | 250ML |
| | Black alcohol based quick drying ink | P/N HK-M310 | 250ML |
| | White ink drying | P/N HK-M410 | 250ML |
| Cleaning fluid | The cleaning liquid with quick drying ink | P/N L20202 | 250ML |
| | Wash bottle | P/N P0201 | individual |
| Sprinkler parts | Solenoid valve | P/N LN0108 | individual |

| | | | |
|-------------|--------------------------|-------------|-----------------------------------|
| | Spray | P/N LW0109 | Identification of species |
| Print cable | Mobile print cable 16 | P/N LN1002 | strip |
| | Mobile print cable 7 | P/N LN1003 | strip |
| | Synchronizer | P/N LN0801 | Hand held special part |
| | Remote Handlebar Toggles | P/N LN0802 | Hand held special part |
| | Ink bottle cap | P/N LW40201 | Containing rubber seals and locks |
| | Nozzle handle | P/N LN0101 | individual |
| | Controller hand | P/N LN0201 | individual |
| | Charger | P/N LW0301 | set |
| | Strap hangers | P/N LW0102 | only |