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FLW-717C

Product Manual

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	Author:	Lvjun Hao
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Product Introduction

FLW-717C is designed for large-screen LCD splicing system designed splice point screen is its unique modular design, integrates a variety of signal decoding unit, multi-screen mosaic processing unit, LCD driver unit, power supply units, etc. parts. Flexible and easy to form a large-screen LCD display wall system.

Chapter 1： Features Environmental Indicators

ID Enter	1channel hardware DIP switch	Used to enter the ranks of the corresponding hardware address, from 1-8 1-4 respectively represent the row address 5-8 for column address, maximum 15 lines X15 ranks of support columns.
Enter	1 channel CVBS	Transposon BNC interface, support PAL / NTSC all standard, all the way to ring out.
	1 channel VGA	Support VGA signal 1920X1080 60Hz or less most of 60Hz resolution.
	1 channel DVI	1920X1080 60Hz DVI signal support most of the following 60Hz resolution.
	1 channel HDMI	Support the full resolution HDMI 1080P60Hz signal less.
	YPbPr/AV2/AV3	There is a way for external CN20 transposon YPBPR or RGB HS VS, two AV signal AV2, AV3 or all the way SV signal.
Export	Backlit	Two 13pin backlight and backlight control signal DC power output.
	LVDS	Support for single and double road LVDS, the highest cocoa support WUXGA (1920X1080) screen.

Engineering SystemSoftware	717C splice box V1.0.0.6, RS232 interface control (a way forward, 2-way loop out)
Operating temperature	0～70℃
Working humidity	5～95％RH
Power AC voltage	100-240V/50,60Hz
Power consumption	Maximum 300W, according to different screen models
Chassis Size	307×282×53.8（mm）

1.1 Features

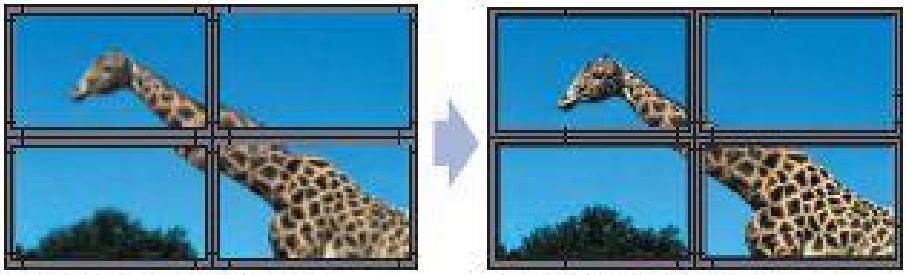
- Full hardware architecture, no CPU and operating system;
- Multi-bus parallel processing, handling and powerful;
- Start-up time of less than 8 seconds, start quickly;
- No risk of virus infection, good security;
- Integrated multi-channel video signal source types: DVI, HDMI, composite video, VGA;

- Composite video loop out;
- Embedded 3D video bright separation circuit unit;
- Embedded 3D progressive normalization process and frame rate conversion circuit unit;
- Embedded 3D digital signal noise reduction unit;
- Unit supports drive to 1920X1080 LCD screen;
- RS232 serial remote control; each unit supports two-way RS232 ring out;
- Can continue to work 24 hours a day;
- Easy to operate, with FTM_CONTROL software can flexibly operate the system;
- It can open the underlying communication protocol,user-friendly and flexible usethird-party control system;
- Or prepare their own software system constructed large-screen project.

1.2 Feature

1.2.1 Support Framework features

All pictures built-in frame compensation function can adjust the screen to window.



1.2.2 thermostatically controlled fan

Built-in temperature controlled fan starts running, the fan can be adjusted according to the actual operating temperature, in order to ensure effective fan life**.**

1.2.3 Built-random code soft address set

Built-in random number generator that can generate a random code by Rs232 FLW-717C communication control box, this random code for each machine varies and can be set soft random code generated by a unique address, which is soft address instead of hardware address, convenient construction site.

1.2.4 boot LOGO stitching

Power LOGO stitching facilitate customer according to their own needs, to configure the LOGO display, so you can achieve better publicity display.

1.2.5 USB power upgrades

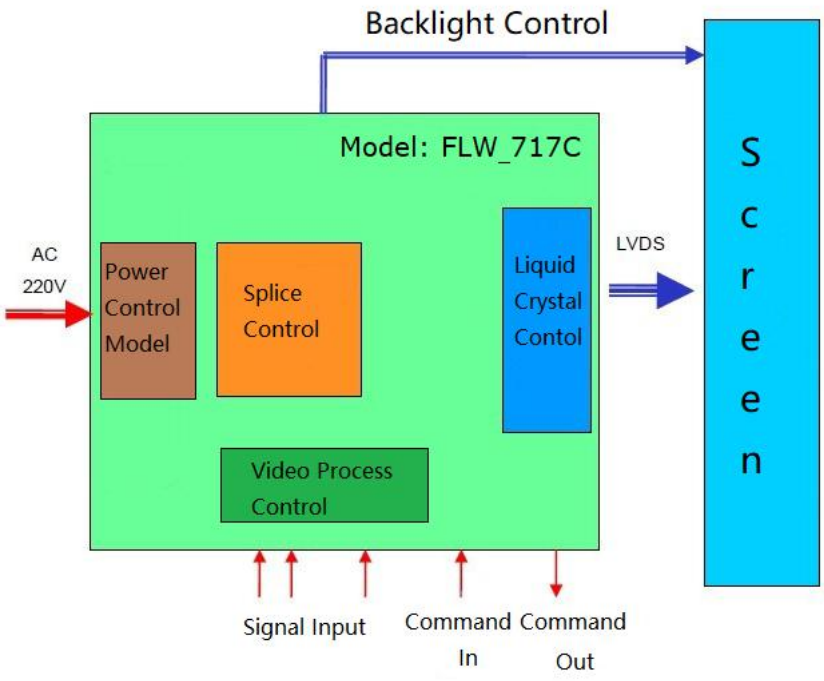
Division I use USB to RJ45 adapter cable, and then you can easily upgrade software at the construction site, the use of adapter cable and a U disk, you can splice a project officer

for the entire system FLW-717C module to do all the upgrades, as long as the U after the disk memory into the software to be upgraded, use cable to connect the U disk connected to the corresponding FLW-717C machine, and then re-AC, FLW-717C box detected automatically after the software upgrade into the upgrade module, the corresponding power indicator light flashes prompted to upgrade, lights do not flash until the upgrade is complete.

1.2.6 point display function

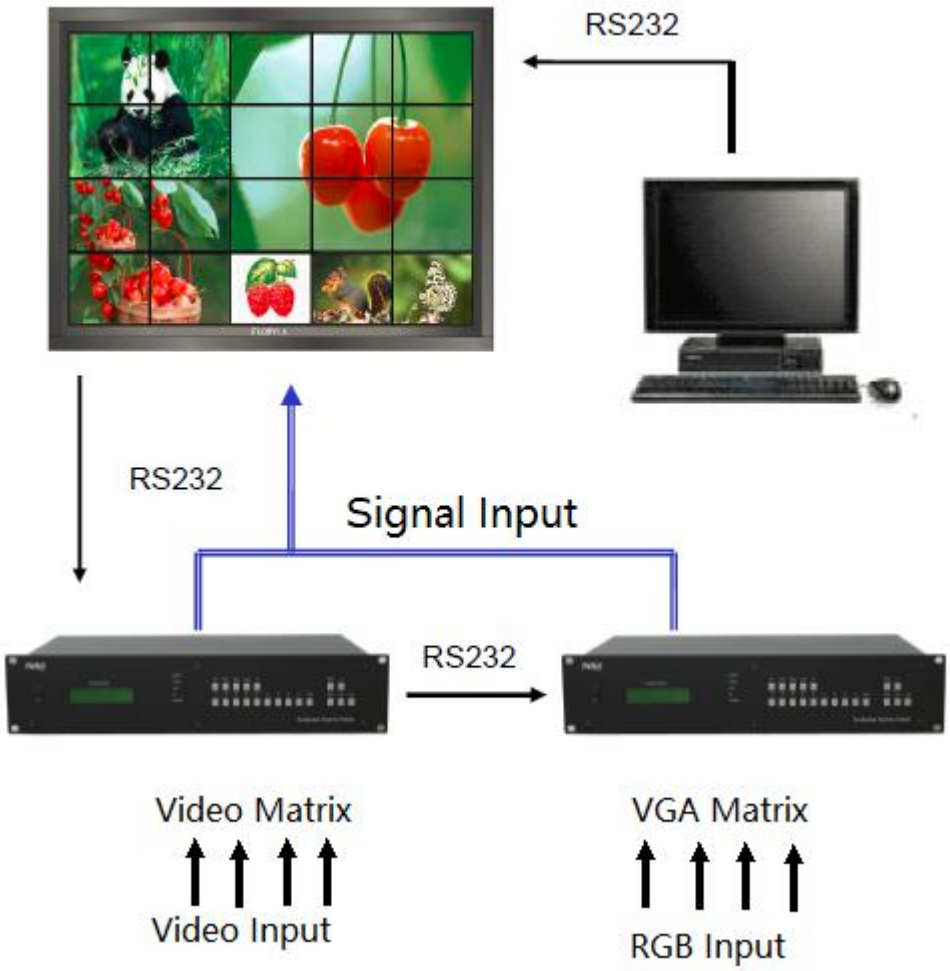
With this feature, you can easily clear view DVI, VGA document under which can achieve high resolution, making documents more clear and bright.

1.3 Splicing unitblock diagram

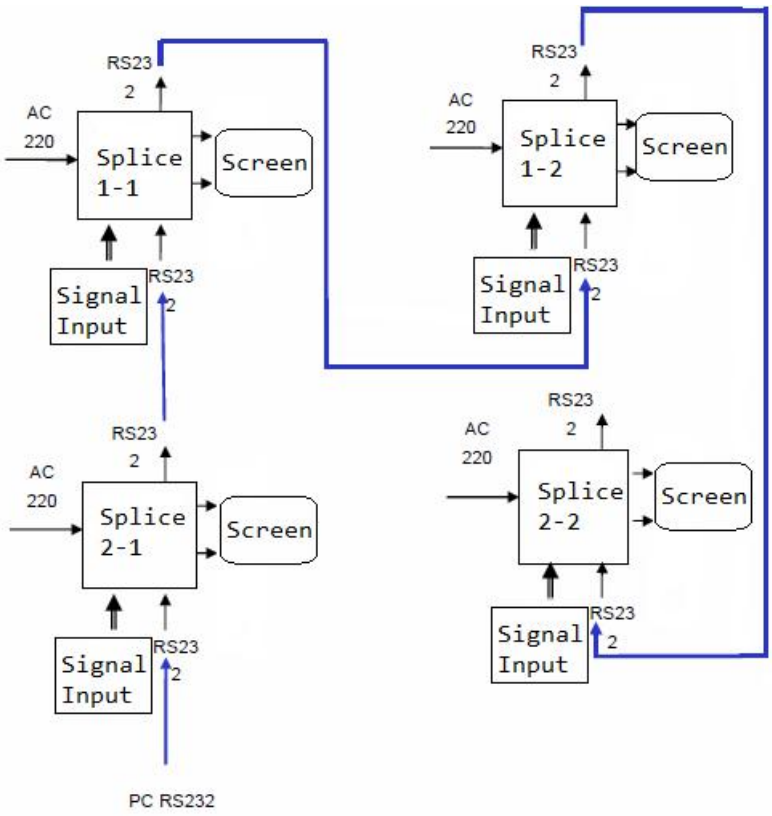


Embedded processing systems, each unit has its own processing module and power module, and via serial port communication between units.

1.4 System structure principle



1.5 Block diagram of the screen wall mosaic (2X2)



1.8 Troubleshooting

When the product fails, turn off the power immediately, please do not attempt to disassemble the unit for repair, the product may cause further damage. The following steps can be ruled out, still can not be solved, please contact your local dealer or qualified service personnel. For the user to repair the product, not the company's warranty.

It is like	Approach
Does not boot （power light is off）	1、Check that the power cord is damaged; 2、Whether the power is access to electricity; 3、Make sure the power is turned on; 4、Is the power switch is damaged; 5：It is blown fuse。
All splicing unit uncontrolled	1、Check the stitching software port settings are correct； 2、check the serial cable is damaged, and whether the PC interface products and good contact; 3、PC's serial port to check whether there is a problem, you can replace the PC test;

	4、Address splicing unit is set correctly, see the address settings.
Uncontrolled individual splicing unit	1、Check the address of the device settings are correct. 2、Individual control of the device was successful.
Single or multiple devices VGA / DVI no input	1、Check unit board and the signal source end of the interface is a good contact; 2、Replacing a VGA or DVI cable test; 3、The device is set in the input status; 4、The input signal exceeds the input range of the product; 5、When the DVI input, make sure there is caught DDC, and there is output.

1.9 Performance

Operating temperature: -15℃-65℃

Working humidity: Relative humidity less than 95%

Power consumption: ≤300W, Screen type and size of the

voltage: 95V AC-250V AC

Composite video format: PAL、NTSC、SECAM

Composite video Peak: 1Vp-p

control method: RS-232 (RJ45)

VGA input: WUXGA (1920*1080)

DVI input: WUXGA (1920*1080)

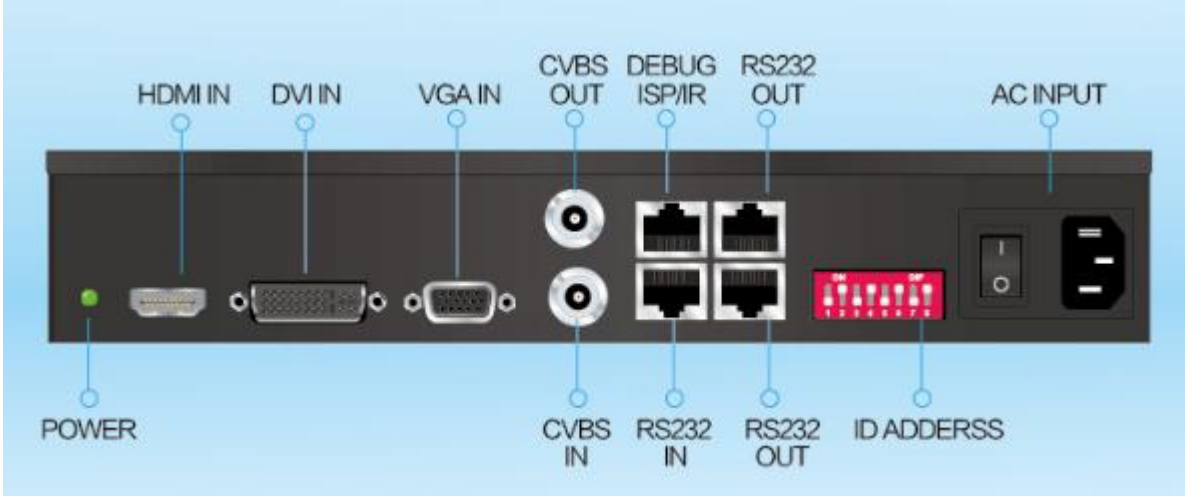
Screen resolution support: WUXGA (1920*1080), Dual 10bit

Temperature-controlled fan: Automatic control

Chapter 2 ： Physical map

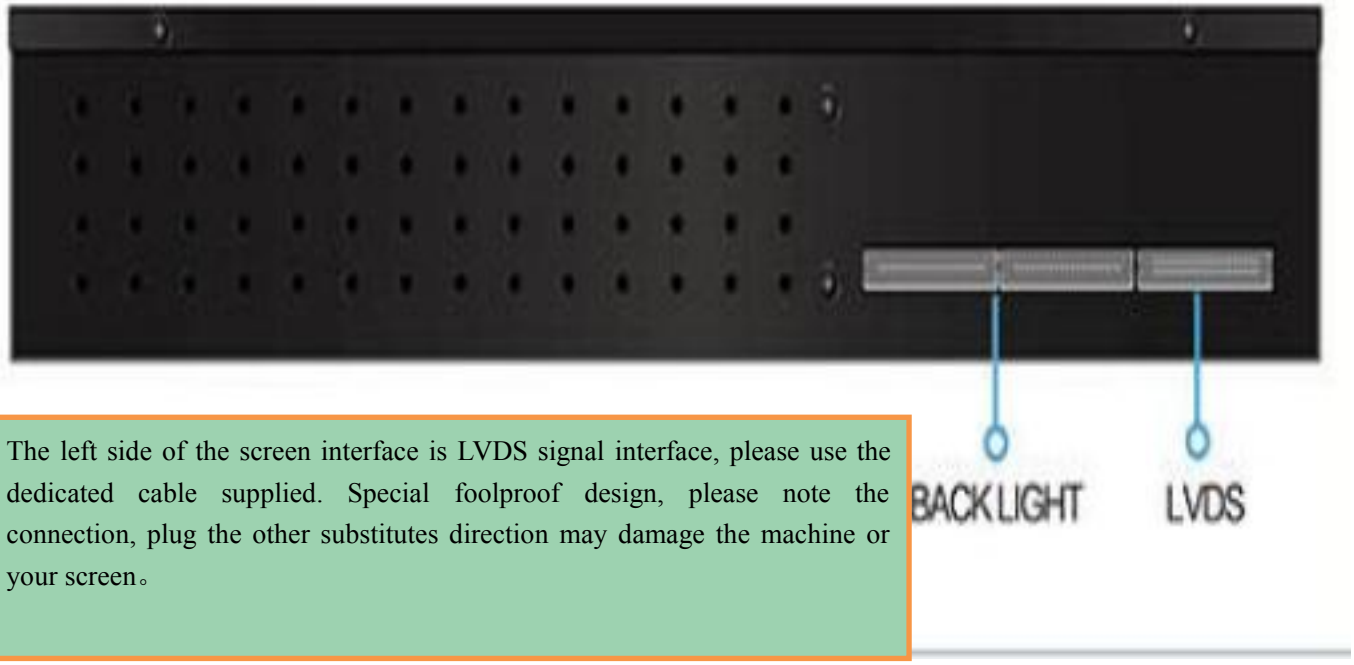
This is M59W V1.5 board assembly FLW-717C board pictures taken.

Interface Definition



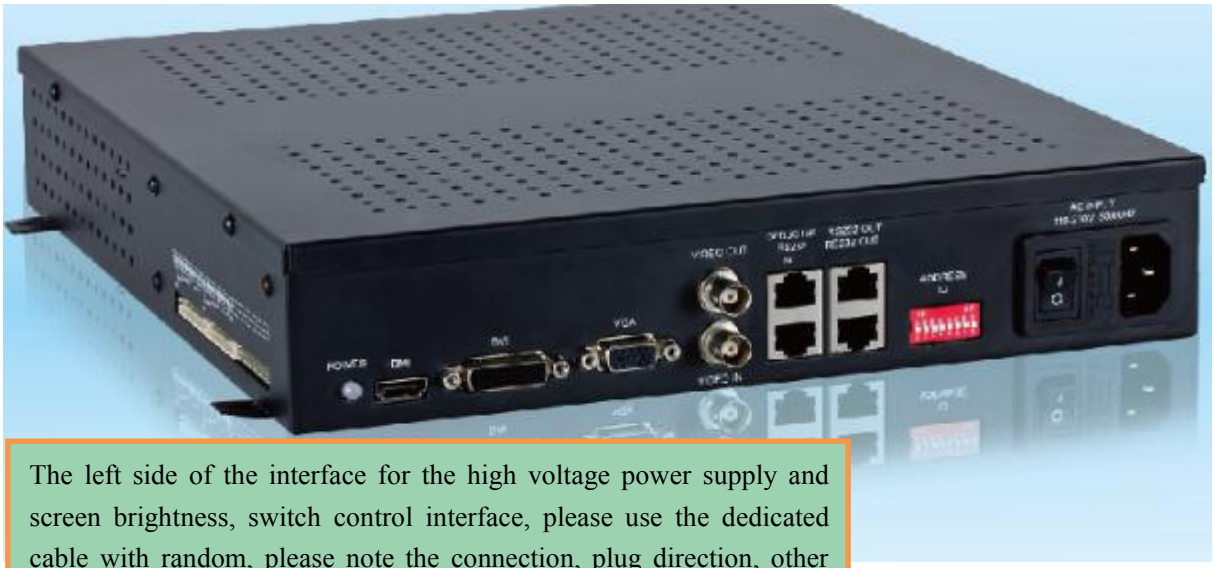
serial number	Explanation
POWER	Power indicator light, orange standby, green jobs;
HDMI IN	HDMI input signal interface;
DVI IN	DVI input signal interface;
VGA IN	VGA input signal interface;

CVBS OUT	CVBS / Composite video signal interface loop out (interface type BNC);
DEBUG ISR/IR	ISP (download tool) upgrade, USB upgrade, infrared access conversion interface (interface type RJ45);
RS232 OUT	RS232 control signal loop output interface (the interface type RJ45);
ID APDERSS	Hardware ID address encoder, 1 to 4 for the row address, 5 to 8 for the column address;
AC INPUT	switch;
AS INPUT	AC power input, built-in 3A fuse;
CVBS IN	CVBS / composite video signal input interface (interface type BNC);
RS232 IN	RS232 control signal input port (interface type RJ45).



The left side of the screen interface is LVDS signal interface, please use the dedicated cable supplied. Special foolproof design, please note the connection, plug the other substitutes direction may damage the machine or your screen。

Pin	SYMBOL	NOTES
One,Two, three, Four	**VCC**	Panel Power supply
Fives,Six, Seven, Eight	**GND**	GND
Nine	**RXE4-**	A-Link Negative LVDS Differential Data Output
Ten	**RXE4+**	A-Link Positive LVDS Differential Data Output
Eleven	**RXE3-**	A-Link Negative LVDS Differential Data Output
Twelve	**RXE3+**	A-Link Positive LVDS Differential Data Output
Thirteen	**RXEC-**	A-Link Negative LVDS Differential Data Output
Fourteen	**RXEC+**	A-Link Positive LVDS Differential Data Output
Fifteen	**RXE2-**	A-Link Negative LVDS Differential Data Output
Sixteen	**RXE2+**	A-Link Positive LVDS Differential Data Output
Seventeen	**RXE1-**	A-Link Negative LVDS Differential Data Output
Eighteen	**RXE1+**	A-Link Positive LVDS Differential Data Output
Nineteen	**RXE0-**	B-Link Negative LVDS Differential Data Output
Twenty	**RXE0+**	B-Link Positive LVDS Differential Data Output
Twenty-one, Twenty-two	**GND**	GND
Twenty-three	**RXE4-**	B-Link Negative LVDS Differential Data Output
Twenty-four	**RXE4+**	B-Link Positive LVDS Differential Data Output
Twenty-five	**RXE3-**	B-Link Negative LVDS Differential Data Output
Twenty-six	**RXE3+**	B-Link Positive LVDS Differential Data Output
Twenty-seven	**RXEC-**	B-Link Negative LVDS Differential Data Output
Twenty-eight	**RXEC+**	B-Link Positive LVDS Differential Data Output
Twenty-nine	**RXE2-**	B-Link Negative LVDS Differential Data Output
thirty	**RXE2+**	B-Link Positive LVDS Differential Data Output
thirty-one	**RXE1-**	B-Link Negative LVDS Differential Data Output
thirty-two	**RXE1+**	B-Link Positive LVDS Differential Data Output
thirty-three	**RXE0-**	B-Link Negative LVDS Differential Data Output
thirty- four	**RXE0-**	B-Link Positive LVDS Differential Data Output
thirty-five, thirty- six	**GND**	GND

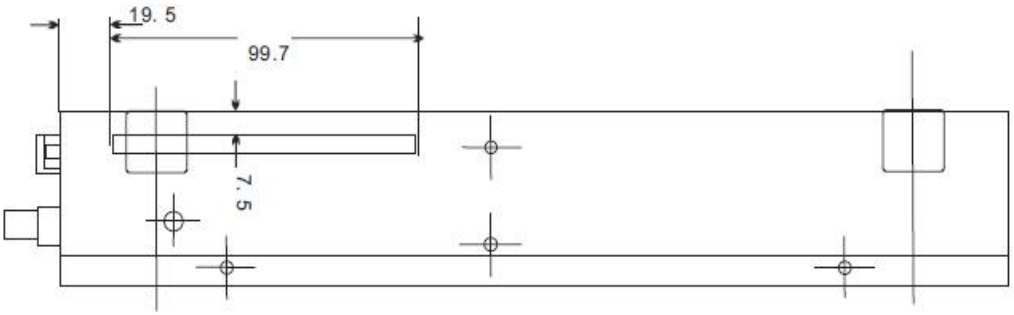


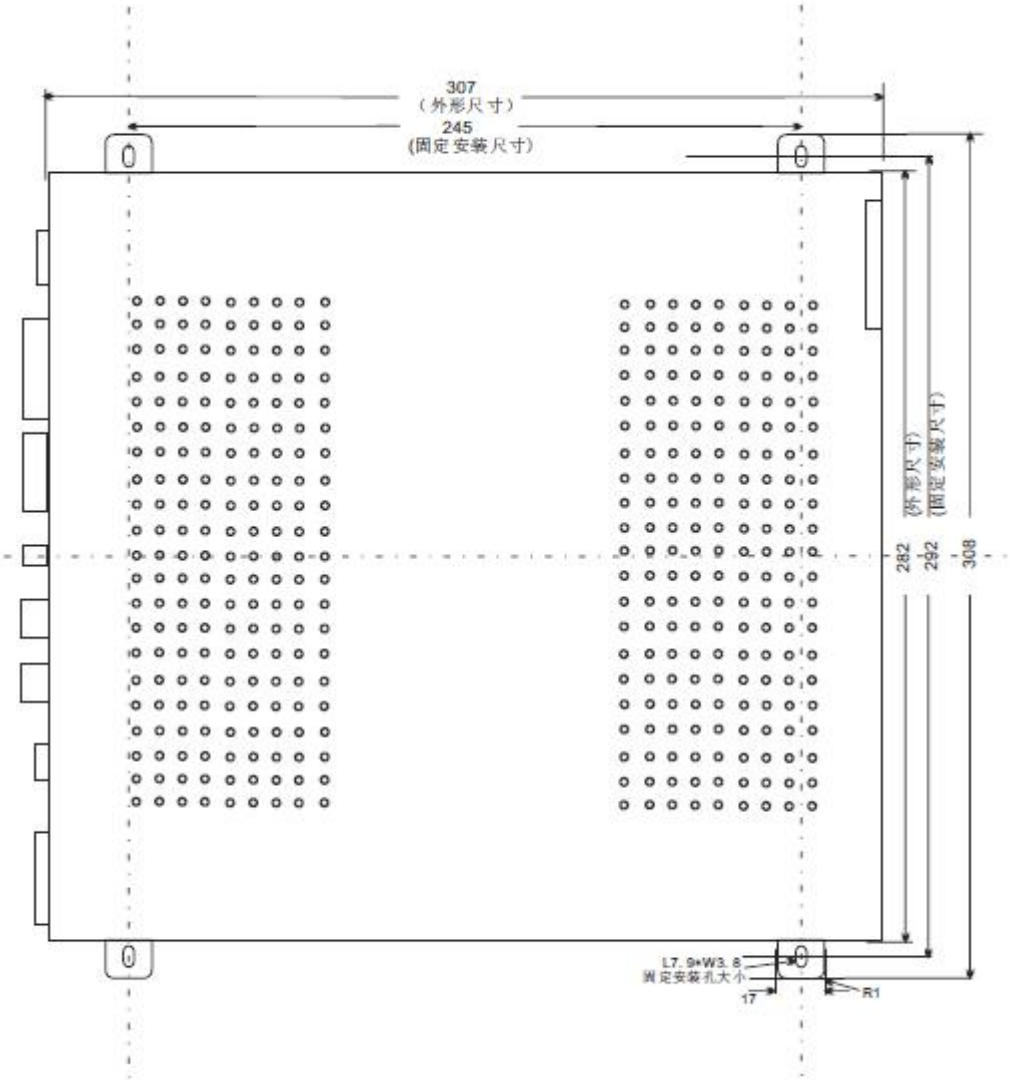
The left side of the interface for the high voltage power supply and screen brightness, switch control interface, please use the dedicated cable with random, please note the connection, plug direction, other alternatives may damage the machine or your screen

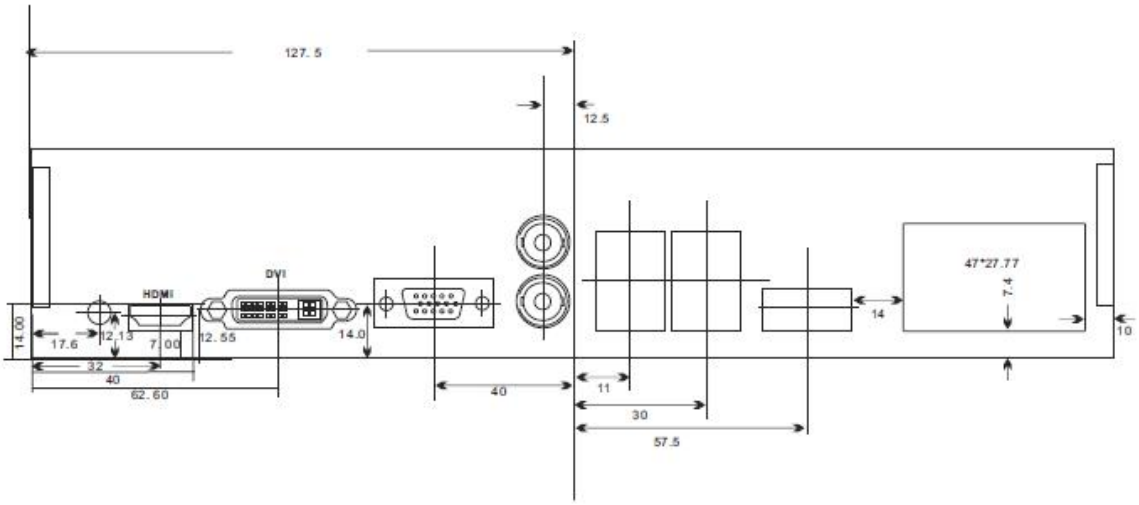
Port（Pin）	Explanation
One,Two, three, Four，Fives	24V DC output.
Six, Seven, Eight，Nine，Ten	DC output ground.
Eleven	Empty (NC).
Twelve	Screen backlight off control.
Thirteen	Backlight brightness control.

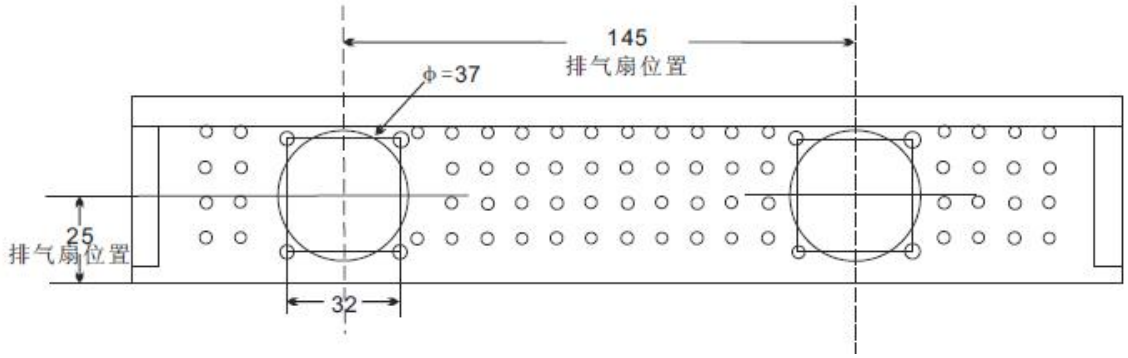
Chapter 3: Size definitions

Structural dimensions

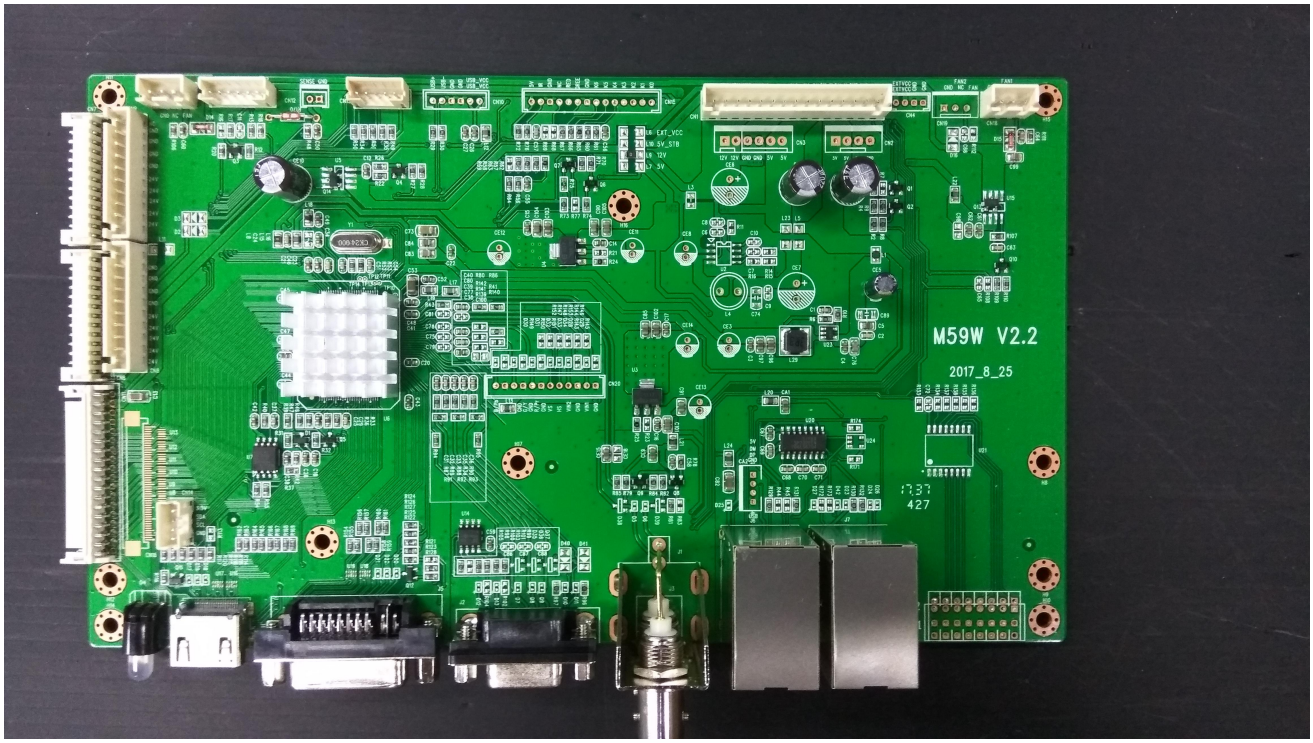



307
（外形尺寸）
245
(固定安装尺寸)
282
292
308
(外形尺寸)
(固定安装尺寸)
L7.9*W3.8
固定安装孔大小
17
R1


127.5
12.5
HDMI
DVI
14.00
17.6
12.13
7.00
12.55
14.0
32
40
62.60
40
11
30
57.5
14
47*27.77
7.4
10



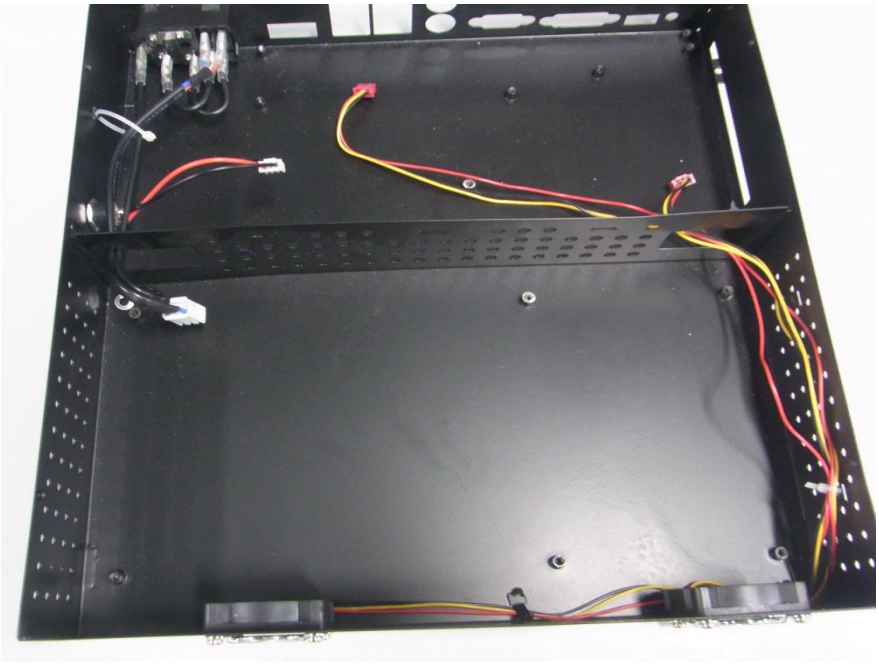
Chapter 4: Setup poster



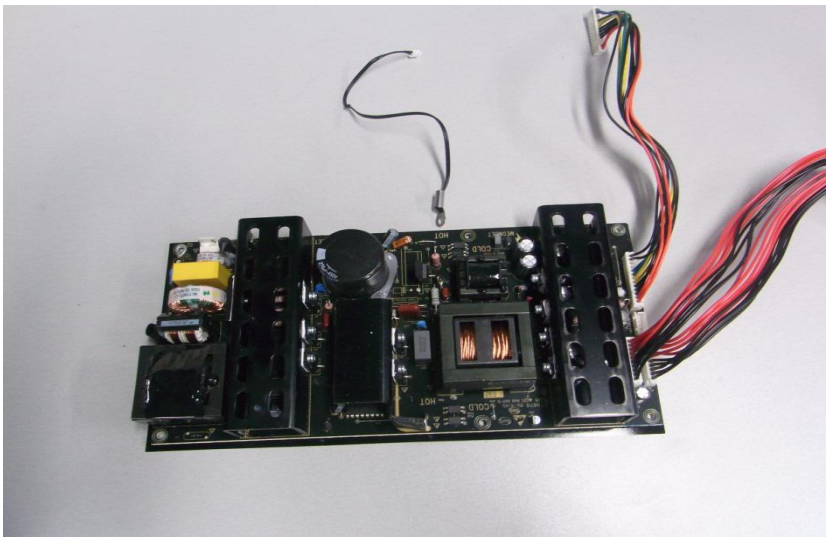
serial number	Explanation
One,Two,Four,Fives	LCD backlight power cord.
three、Eight	Internal cooling fan connector.
Six	Temperature sensing interface.
Seven	Motherboard power line interface.
Nine	External cooling fan connector.

4.1 Installation:

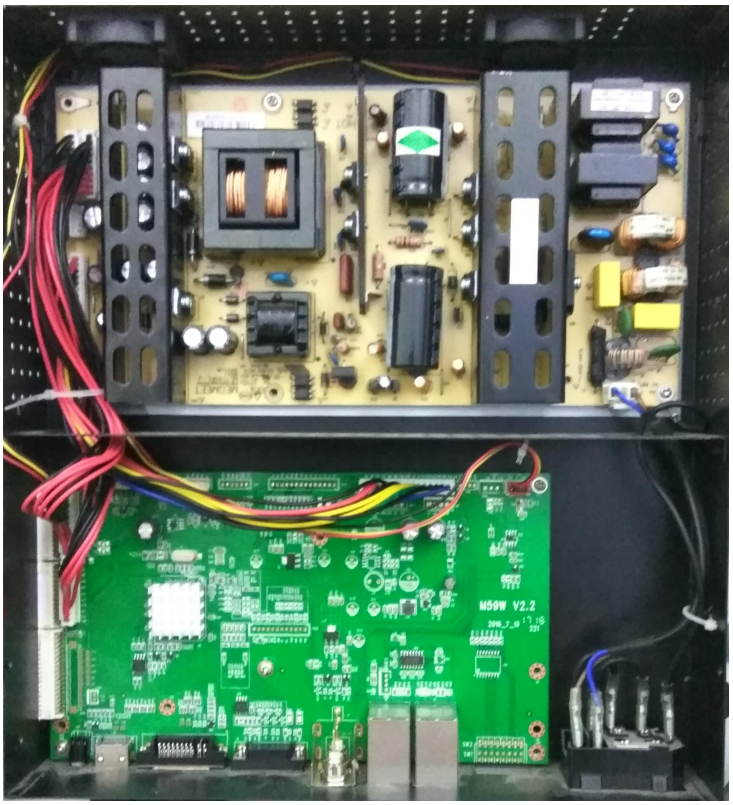
1、Install cooling fan and AC power holder.



2、Install the power board and the power cord.



3、Install the motherboard and motherboard cable.



chapter 5: Burning Software

5.1 Software Upgrade Guide

FLW-717C / M59W upgrade there are two kinds of ways 1：USB Upgrade.　　2：　ISP Upgrade.

5.2 USB upgrade steps

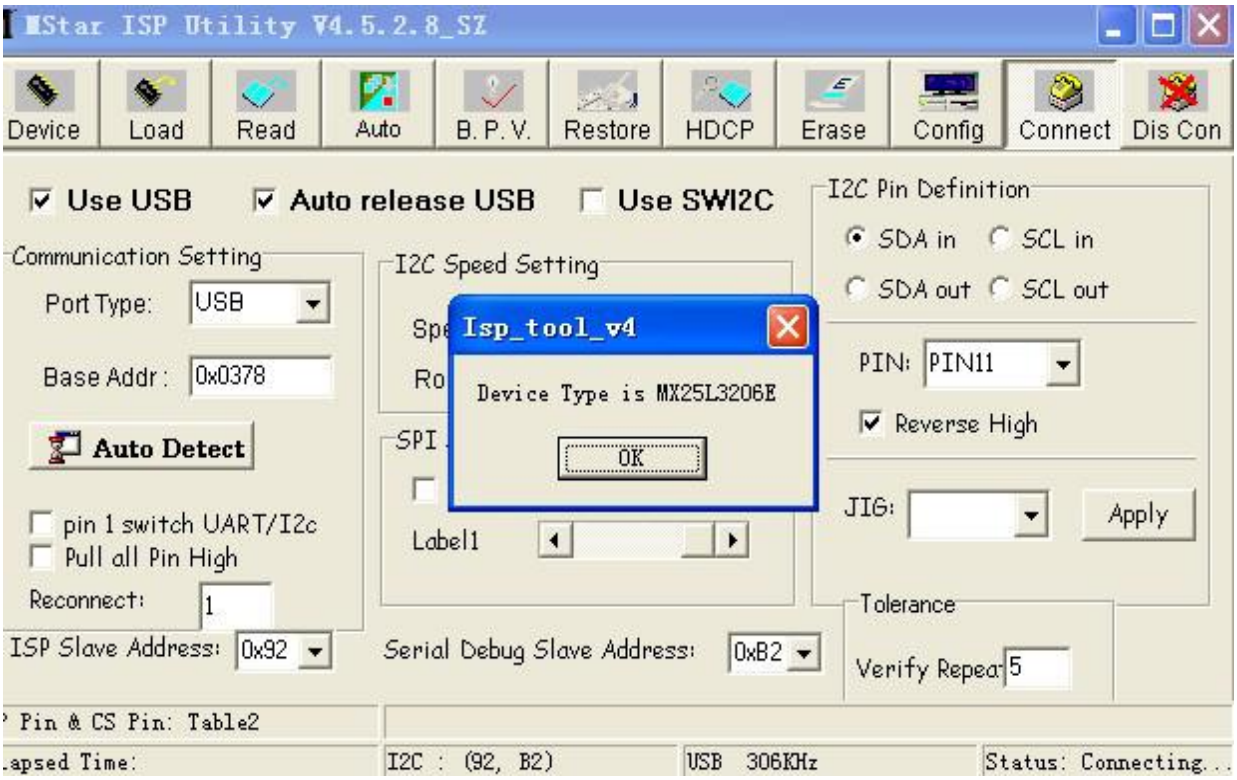
First, the need to burn copies of the software to the U disk　Software name is fixed　FLW_V59.bin.
The USB connection to M59W board RJ45 port via USB to RJ45 cable，As shown below：

5.3 ISP upgrade

PC Tools driver will be installed first ISP ISP tools to connect to port M59W M59W board CN3 on electricity.

→ Click Open ISP_Tool

After the connection is successful chip models will pop up display, for example:



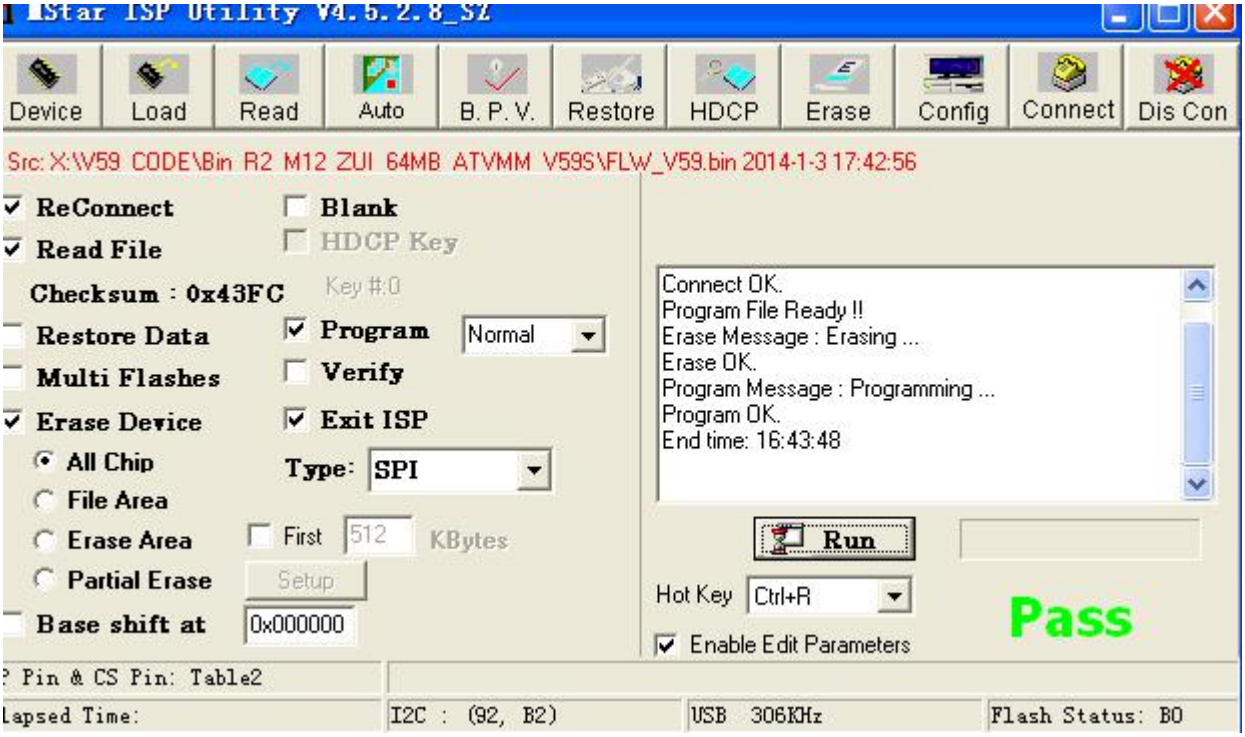
Click on the main interface readButton

Select the desired path burning software，

Click on the main interfaceauto

Then select run to enter the burn，

Burn success as shown below：



5.4 Common Fault Analysis:

Click the Connect but can not be properly connected to M59W board Check the following points:

1、the board is already powered；

2、ISP driver is normal;

Click on the main interface ISP

Normal situation as

If the figure is gray on behalf of two projects the computer does not recognize the ISP tool

3、ISP tools wire and M59W board is properly connected。

Chapter 6: PC software for use

PC software FTM Installation and Application

6.1 System operating environment:

operating system English Windows 98/2000/ NT/XP/WIN7/Vista，
Minimum configuration CPU：surge forward 133Mhz.
RAM：128MB
Graphics Card：StandardVGA，More than 256-color display mode
Hard disk：Typical installation 10M
Serial communication port： Standard RS232 communication interface or compatible models。
Other equipment：Mouse

6.2 Start systems:

Before the system is running, to ensure normal following link:

1、RS232 line computer running the software is properly connected to the controller；
2、Related controller signal cable, power cord is connected properly;

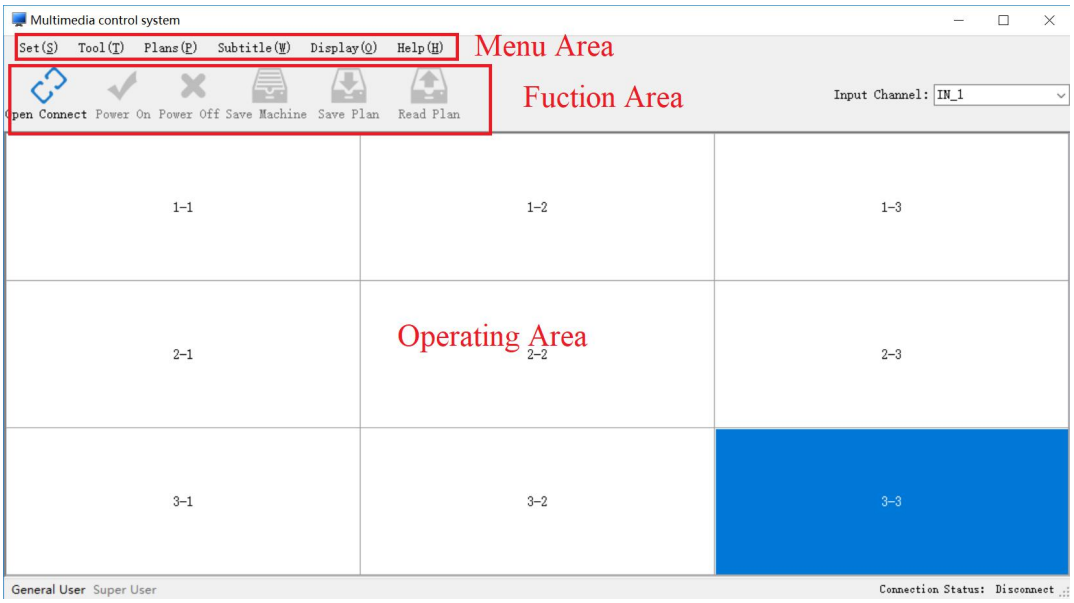
System operation step：

1、Turn on the controller power, control power indicator lights；

Green, representing the operating state is switched; orange for standby。

2、Running the software

Find control software folder, click FWM.exe run. Program user interface as follow:



Depending on the installation software versions, the figure in the example interface and its contents may be some differences exist, consult our related service personnel.

Image above marked with red font function description of each part of the user interface：

1、 Menu Area：Some relevant menu function selection execution region。

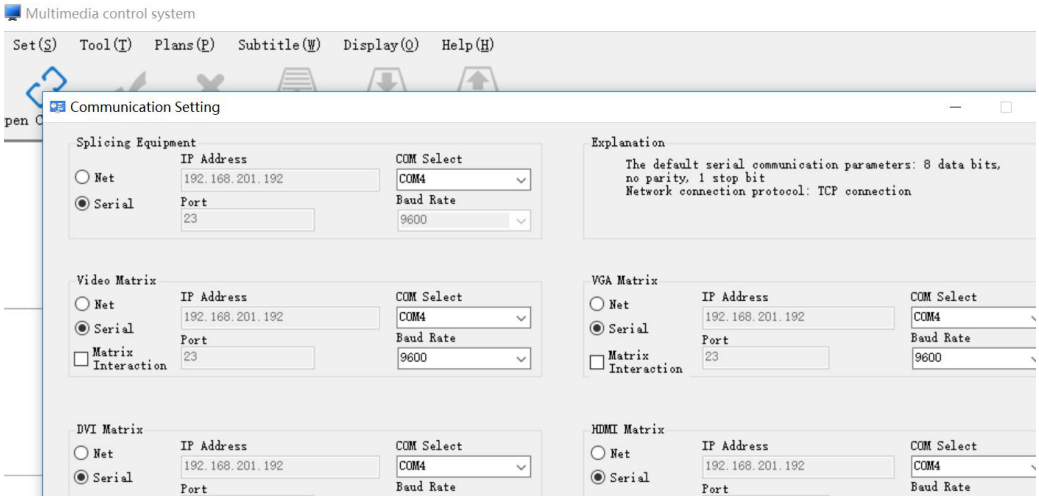
2、 Function Area: Connect uart , and some base function;

3、Operating Area：Each unit represents one square corresponding control screen, you can click the mouse or keyboard, drag to select the appropriate way to control unit.

6.3 How to get started

Communication Settings

Click the main menu, select "Set(S)" -> "Com Setting(C)"



First See the “Splicing Equipment”, select the correct communications port number, the system to work properly.

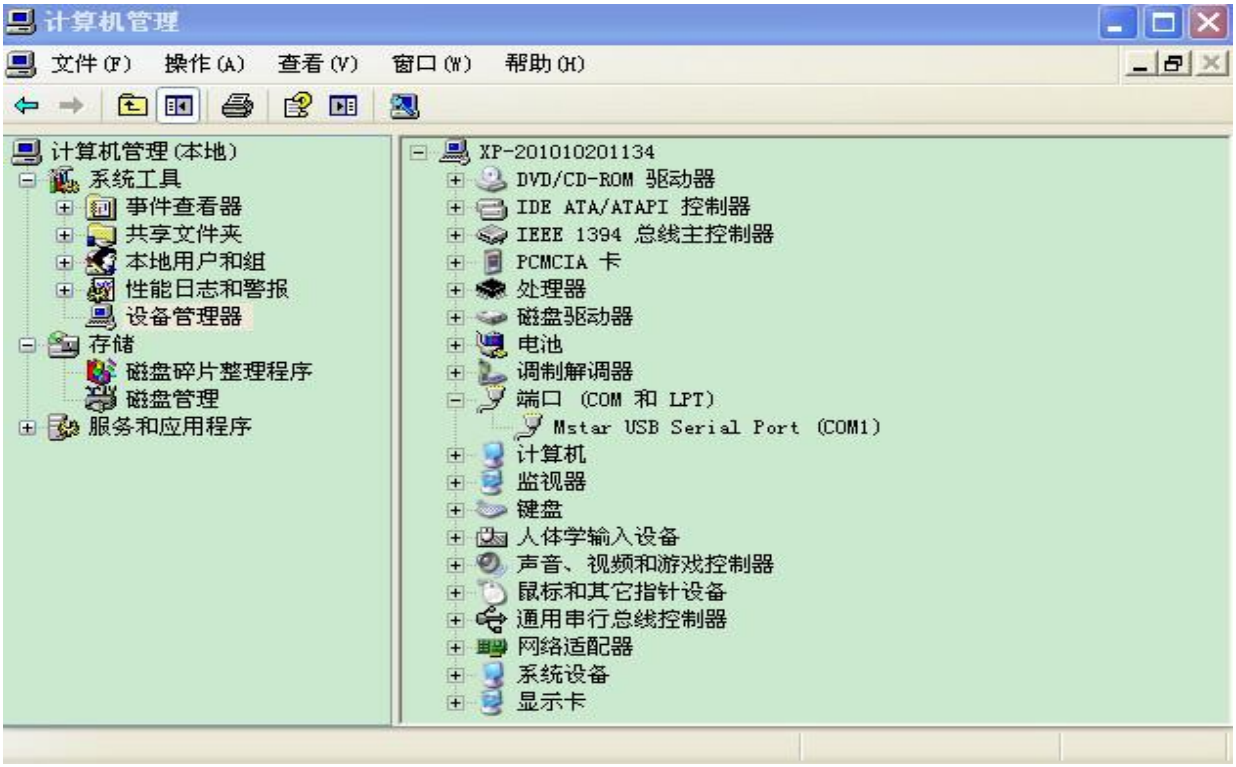
And if use the Matrix, you should also select “COM Select” of the correct Matirx;

Serial port can be set to automatically open when you open the program.

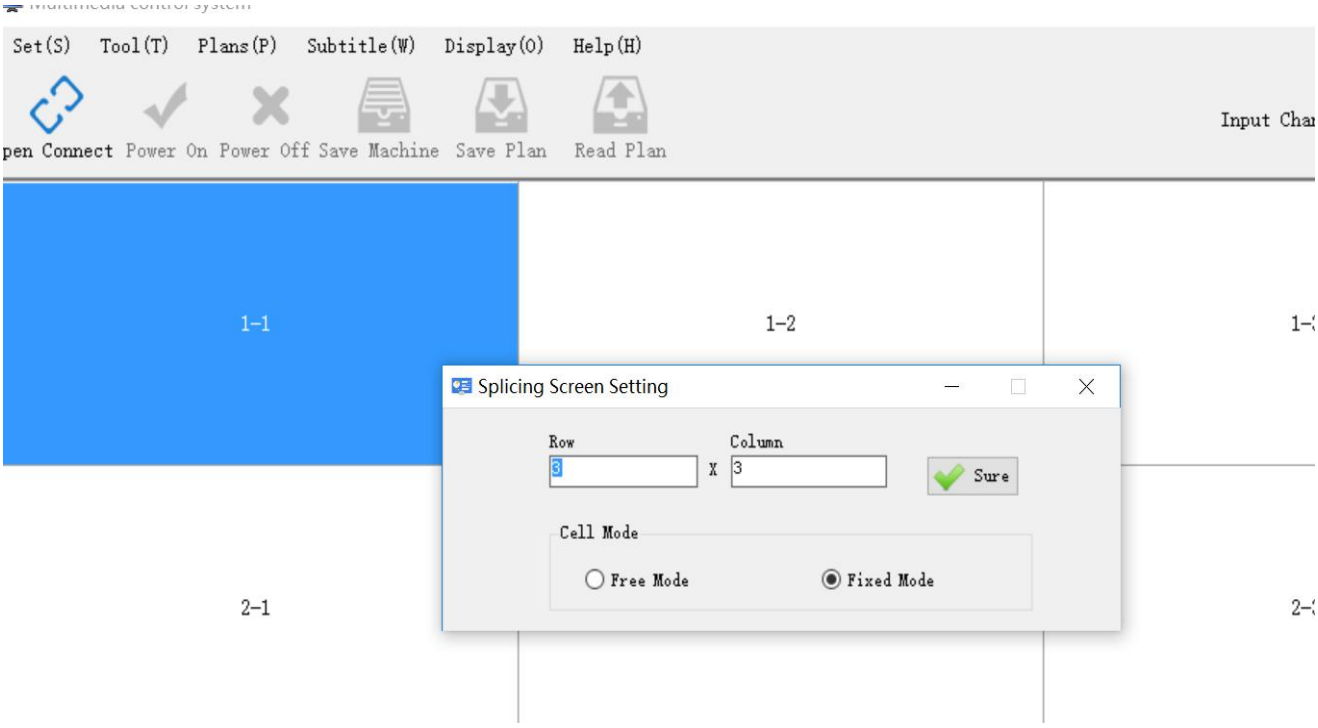
How to know which COM number

PC serial port settings and view：Right-click the "My Computer"－“Management”－“Device Manager”－“Ports (COM and LPT)”

View the PC's serial port.



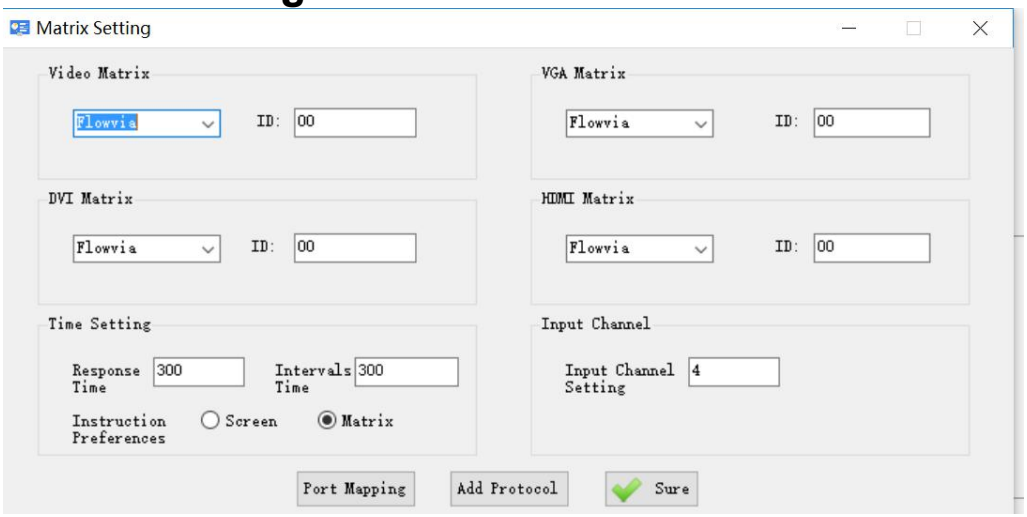
6.4 Splicing Screen Setting



Row Column：Select your screen wall and consistent splicing forms, such as 3X3, 4X6, etc.

Cell Mode： User can set the splicing Window to small or big;

6.5 matrix configurations:



The choice of using a matrix model and set the address:

Matrix correspondence：Big screen matrix output channel corresponding to the position；
For example：The first screen corresponds to a large screen the first channel matrix output, and so on；

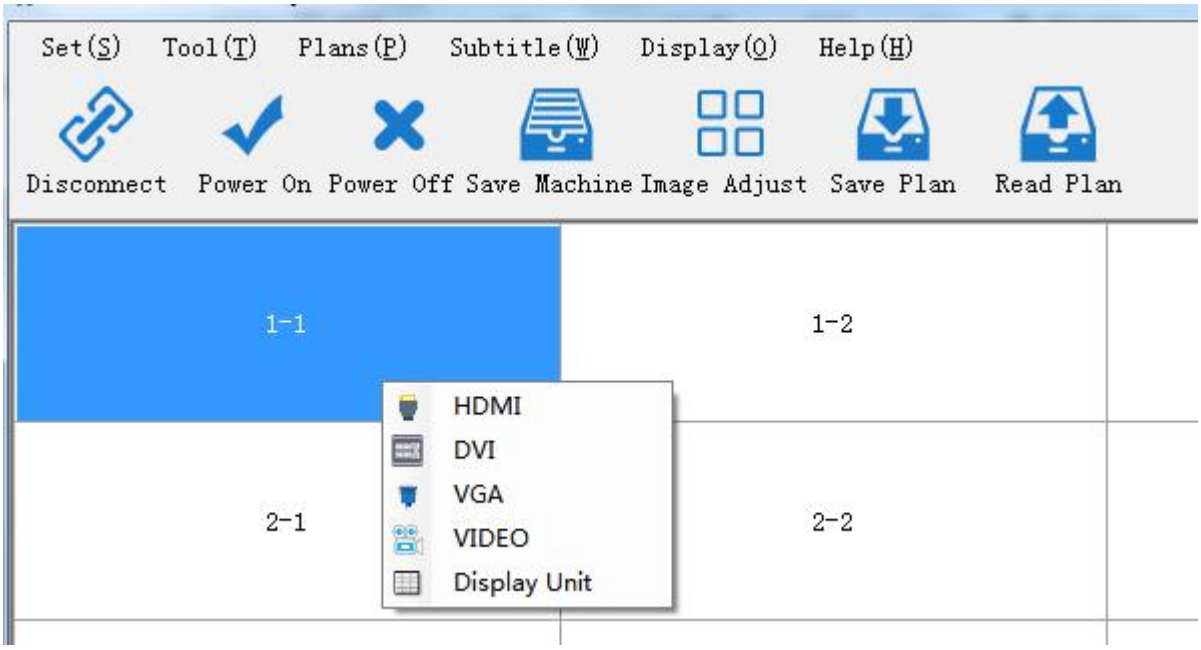
Matrix starting address：This feature is part of the matrix with less, generally do not set;

Matrix Address：Matrix is used to set the address, if the address is not known, please contact matrix factory；

Response time：That matrix and splice time between commands;
Interval：That matrix of time between commands;

6.6 splicing operation

1、Such as serial Status bar undead open, click on the "Open Connect" button to successfully open, ie splicing operation can be carried out in the functional areas.



2、Select the window(can select some window at once), according to your system to choose：HDMI, DVI, VGA, VIDEO. And if you do not need splice, you can select “Display Unit” to make each window show a completed Picture;

3、As with a matrix, you can choice the input signal which input channel send on Matrix;

4、Select the merged area.

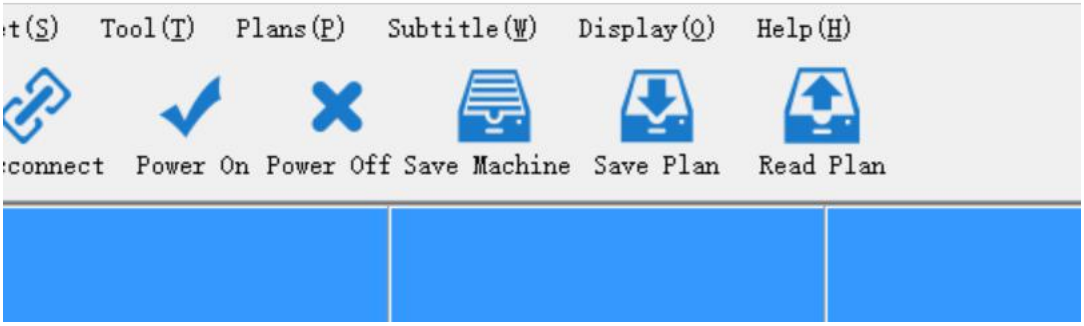
In the above case，3X5 matrix system, we need to coordinate (1,1) - (2,3) region spliced into a 2X3 large screen display.

Follow the example operator：

1、First, the mouse cursor (1,1) coordinate grid block, press the left button, then hold down the state, the mouse moves to (2,3) coordinate grid block, and then release the left button, the blue area that is selected the

merged area;

2、Then press right button on mouse, and select “HDMI”, and input signal change to HDMI signal;

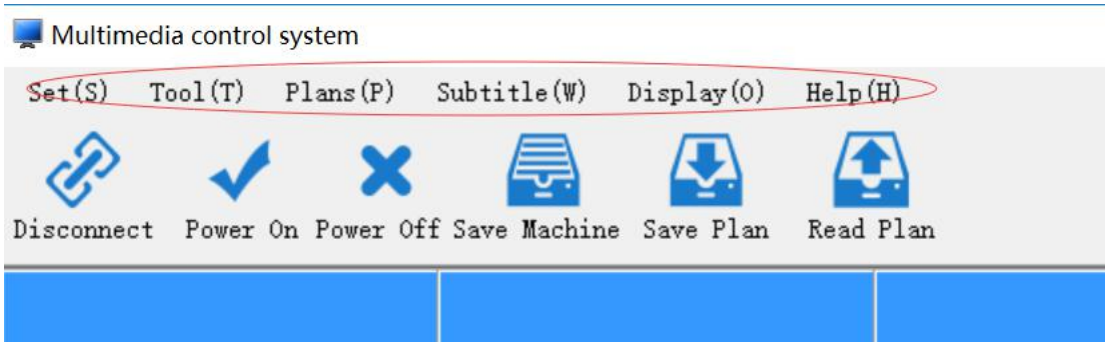


The system can respond and perform the splicing operation.

If you want to save the current settings splicing status, click the Ribbon "Save Machine"(like picture above). Current splicing forms will be saved in the memory controller inside. Turn off the power after the restart, you can still restore the previous state.

Note："This machine Save" takes about 2-3 seconds, please click, not by other operations or turn off the power.

6.7 Menu Area:



Set(S): Setting for uart;

Tool(T): **Some function about screen;**

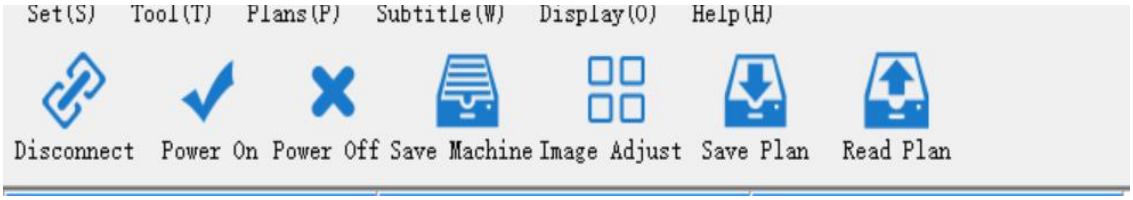
Plans(P): **Set some plans which you often to use;**

Subtitle(W): Show some words on screen;

Display(O): **Some useful perfect for show;**

Help(H): **User Manual, and change the language of tool;**

6.8 Function Area:

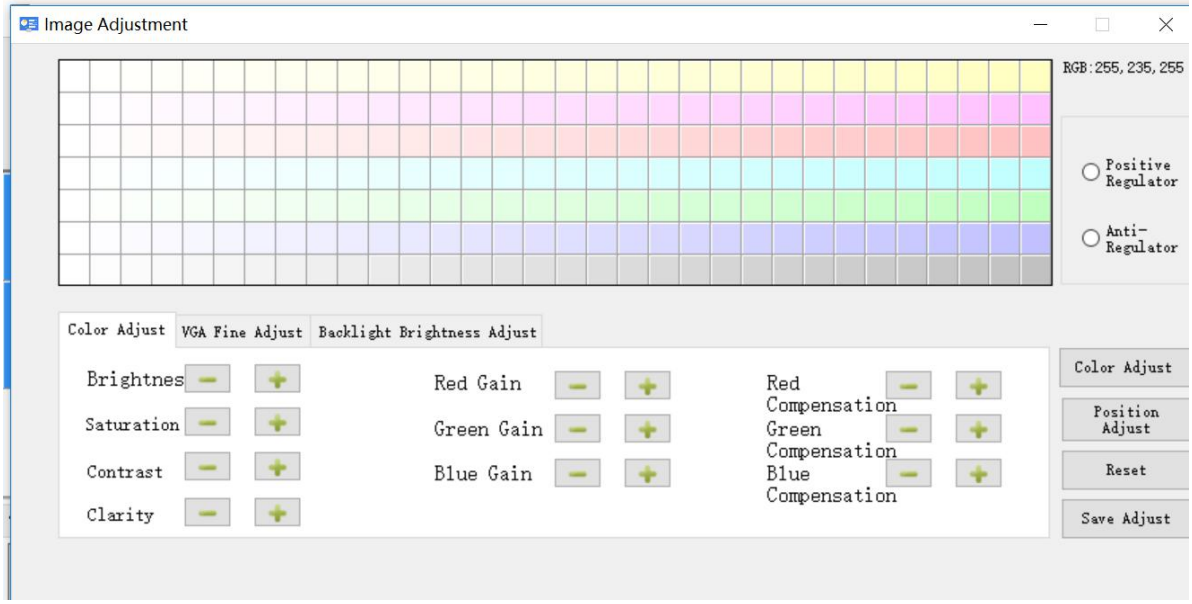


Disconnect/ Open Connect：Click this button to close the serial port. After closing, all related functions and communications are not valid;
Power On：Click this button to display the selected area of the power supply unit will open.
Power Off：Click this button to turn off the power of the selected area of the display unit, it is in standby mode;

Save Machine： Save the current settings splicing status and other setting, like color etc.
Image Adjust： Adjust video's color to make picture better.
Save Plan: Save current settings splicing status;
Read Plan: Set splicing status to the one before saved

Note："Power on" process takes about 5-6 seconds, please click, not by other operations or turn off the power.

Image Adjust：Click this button to open the Image Adjustment screen.



Adjustment range：Is currently operating area selected coordinate unit area. All parameter adjustments will be effective for the selected unit area.

6.7.1 Color Adjust

Brightness: adjust the brightness of the screen image;

Contrast：Adjust the brightness of the screen image；

Saturation: adjust the image color depth extent;

Clarity: adjust the clarity of the screen image and focus together.

6.7.2 Color

Gain - Red: Adjust the color temperature balance bright red component, mainly affecting the white field, bright field;

Gain - Green: Adjust the color temperature balance bright green component, mainly affecting the white field, bright field;

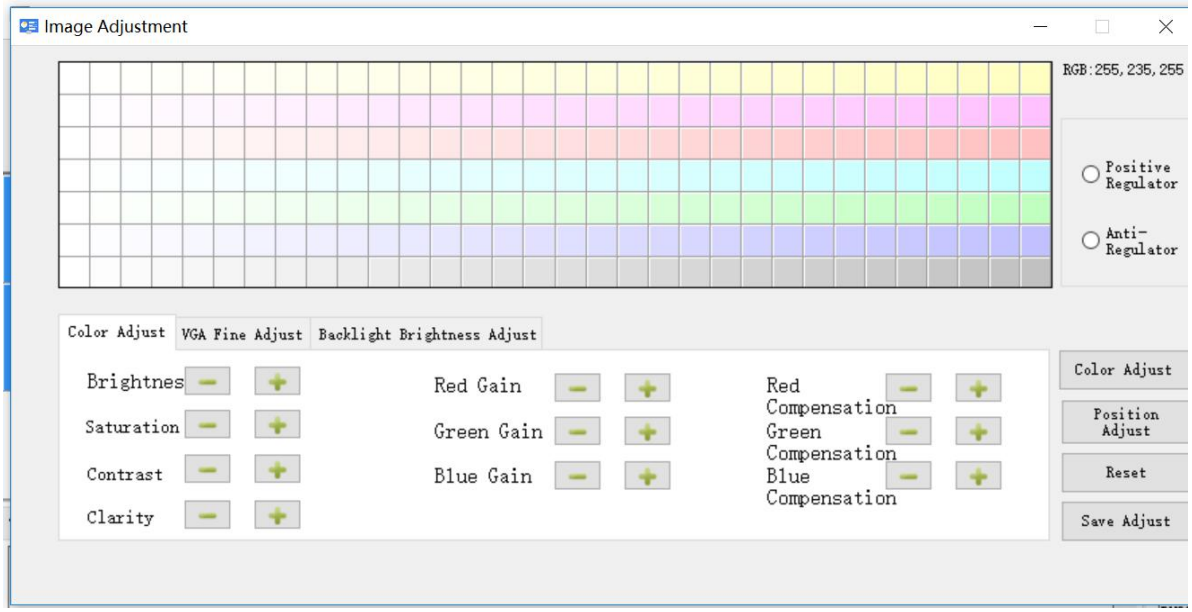
Gain - Blue: adjust the color temperature balance bright blue component, mainly affecting the white field, bright field;

Compensation - Red: Adjust the color temperature balance dark red component, mainly affecting the dark field, dark field;

Compensation - Green: Adjust the color temperature balance dark green component, mainly affecting the dark field, dark field;

Compensation - Blue: adjust the color temperature balance dark blue component, mainly affecting the dark field, dark field;

Swatches：



1. Let's make sure the communication settings correctly, do the basic control。

2. Have administrator privileges to access this area from the control software to adjust the image adjustment options.

3. After the first switch all screens into a unified channel, giving the best signal for the whole screen white field signal.

4. Rationale first find a reference screen on the mosaic screen, and then the rest of the screen with a reference color temperature is adjusted to the same screen, So as to achieve consistent color temperature effect results.

5. Adjusted for use: First, determine whether the non-reference screen model is consistent with the reference screen, and then determine whether the screen backlight brightness to reach agreement with the reference screen, if not you can debug brightness backlight brightness or brightness, contrast parameters equivalent to as close to the base screen brightness. Then prepare to adjust the color temperature of the non-reference screen, first in the color table to quickly select and color similar to the color of the reference screen, and then manually adjust the color temperature of the gain / compensation of red, green and blue (gain mainly affects bright field, try to adjust the gain under the white field the RGB values; compensation mainly affects dark field), by fine-tuning reach base screen color consistent so far. Note: Positive reconcile anti-tune the color corresponding to the color table is the opposite, ie positive tone screen colors and swatches of color is consistent, anti-tune the screen colors and swatches is the opposite, the default is the anti-tune settings Also you can pay attention to hover over the color table value corresponds to the block, this value shows the principle of complementarity of red, green and blue Huang Ziqing.

Automatic adjustment: Under VGA channel, the system automatically adjusts the image color and display position.

Note: "Automatic adjustment" process takes about 3-6 seconds, please click, not by other operations or turn off the power.

This machine reset: Click this button to display unit, it will adjust the parameters of the selected area, said all restored to factory condition.

Note: "This machine reset" process takes about 3-4 seconds, please click, not by other operations or turn off the power.

For VGA signal, you can manually adjust the second page (special adjustment) of parameters

6.7.3 Geometry

Horizontal Position: Adjust the horizontal position of the screen image display;

Vertical Position: Adjust the vertical position of the screen image display;

Clock: adjust the image sampling frequency;

Phase: adjust the image sampling phase.

These parameters are related to the implementation of the next PC channel "position automatic adjustment" of the relevant parameters, if the automatic adjustment can not meet demand, these parameters can be adjusted manually (manual adjustment is generally not recommended).

6.7.4 front-end brightness gain

Red: Adjust the color temperature bright red gain weight;

Green: Adjust the color temperature of light gain green component;

Blue: adjust the color temperature of light blue component gain.

Such parameters are under the PC channel, automatic color adjustment parameters, if the automatic adjustment can not meet

their needs, you can manually adjust the gain parameter representative of the majority of bright field, mainly to enhance the contrast, it is generally not recommended on hand adjustment.

6.7.5 front-end brightness compensation

Red: Adjust the color temperature compensation dark red component;

Green: Adjust the color temperature compensation dark green component;

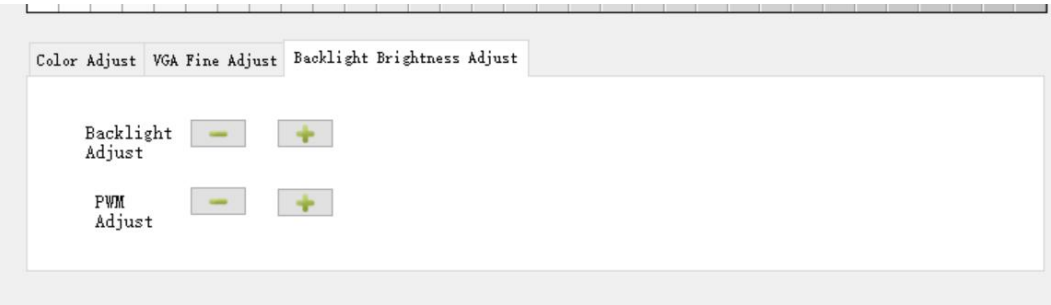
Blue: Adjust the color temperature compensation dark blue component.

Such parameters are under the PC channel, automatic color adjustment parameters, if the automatic

adjustment can not meet their needs, you can manually adjust the parameters of the compensation on behalf of the majority of the dark field, mainly for brightness enhancement, it is generally not recommended on hand adjustment.

6.7.6 Backlight Brightness Adjust

Backlight control module, backlit PWM output voltage regulation and frequency regulation.



6.7.7 User Management

The region according to customers or software versions, the items it contains may be different.

Preset scene：

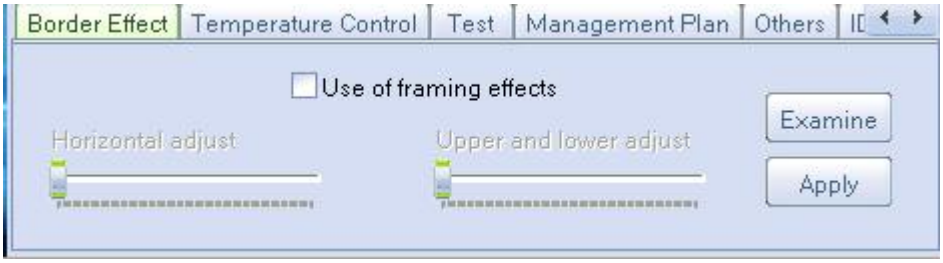
The functions are some common forms of communication stitching factory preset command macro definitions. The user can select an item, users can save and recall custom plans.

No signal selection：The main is to choose the color of the background at no signal state.

HDMI Type：HDMI input channel selection signal is DVD, player or PC, we recommend you choose the configuration according to the actual signal, this effect will be better, the default is PC signal.

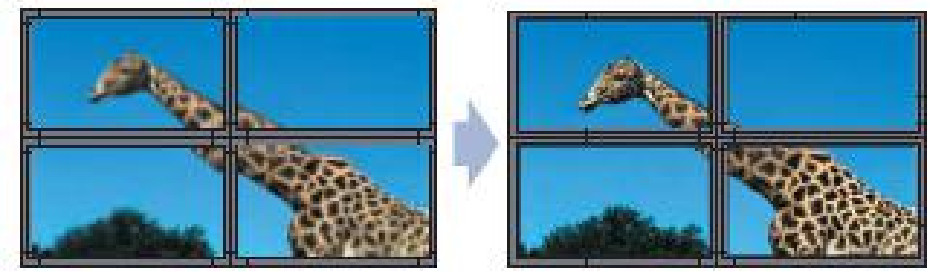
Display Mode: Text modeThe main enhancements for text display make a display； Image mode Mainly for video and images, made fuzzy edge processing, this function can only be achieved in this type of HDMI or DVI digital signal.

Frame effect:



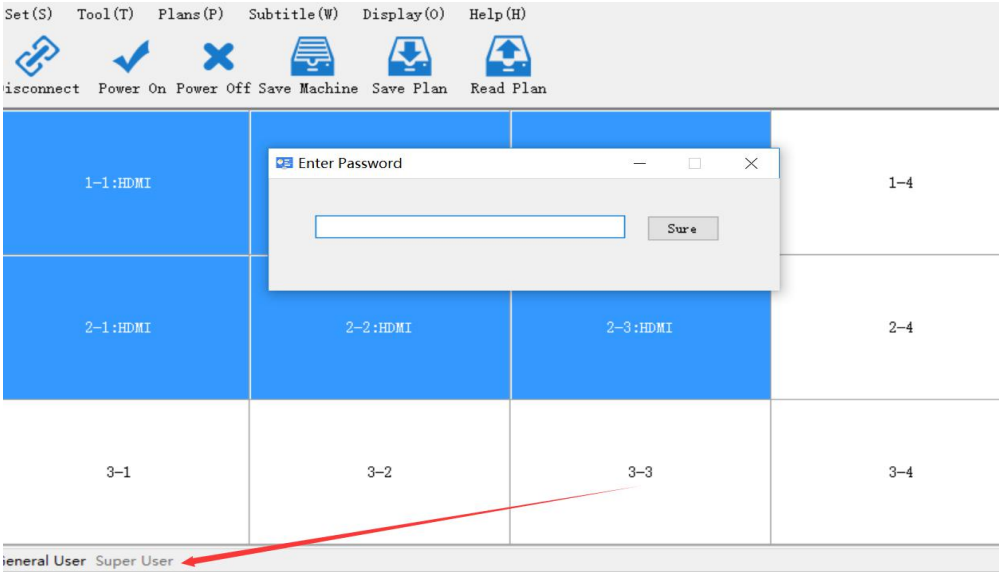
As shown below, using the framework can eliminate graphics deformed right place splicing because the physical gap between the stitching unit, formed after. Before adjusting unit needs to determine whether the normal full screen display, especially in the PC channel has been adjusted automatically determine full screen, and then adjust the upper and lower horizontal frame size and frame dimensions in order to achieve more recognized effect。

Column as: Border value is set according to the physical screen frame。example: LTI460HA03 border is 10MM, 20MM two screens in the value here is set to be20

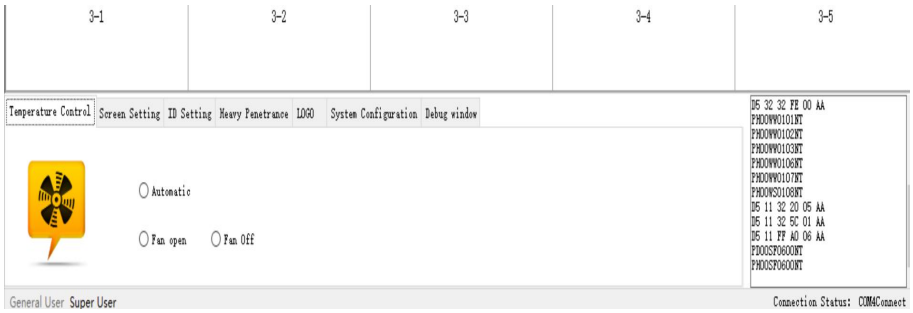


Before using the frame　　After using the frame

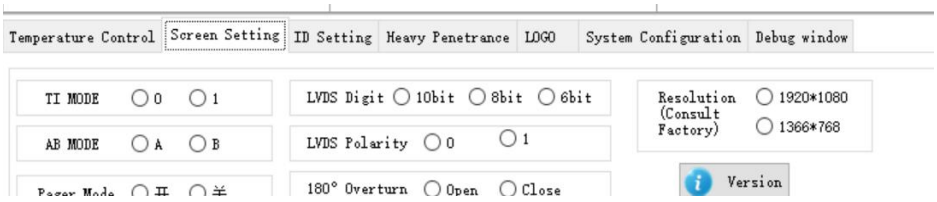
6.8 Special additional functional area (password required background):



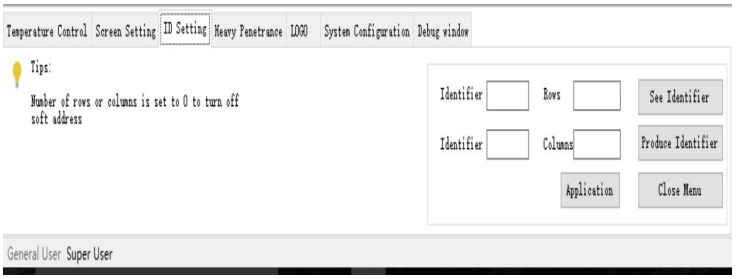
The system is provided with "Super User" operating authority， input “123321” to open addition function.



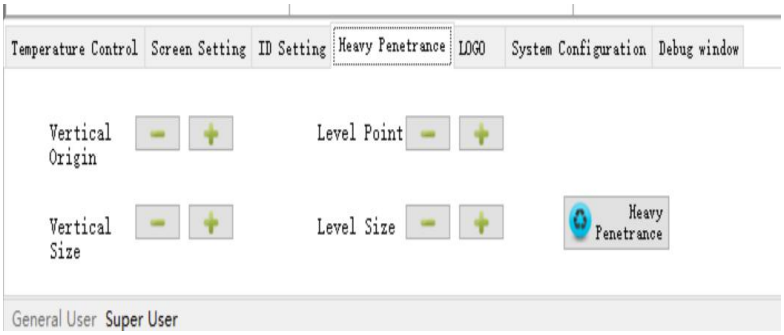
Temperature fan control, the default is "Auto" mode:> 45 degrees open, <40 degrees off；The other is normally open, normally closed, and other modes can be set manually for customers to choose.



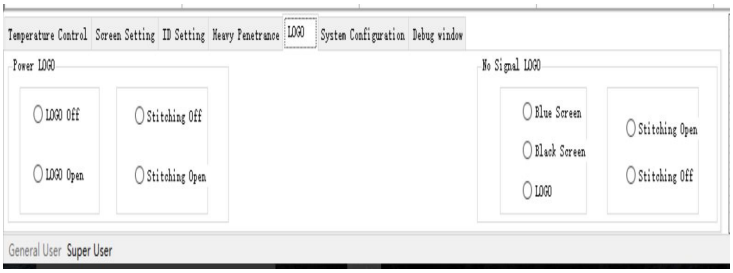
There are a number of test items set about 717C LVDS signal output box (convenient point screen test) and bake mode switch, pager mode must be the case in the absence of a signal can be opened next ah, function: red, green, blue , white, black and other colors flicker, no it can be closed.



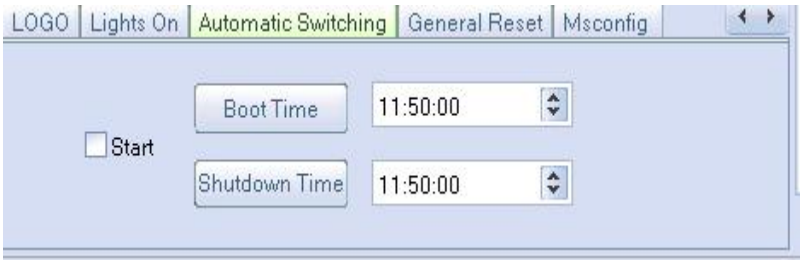
Soft ID number settings and set soft ID, first identification code can be generated, and then generate an identification code to set the ranks of the address.



Adjust CVBS like trimming image processing like doing a screen display size adjustment, adjustment disorder can be restored.

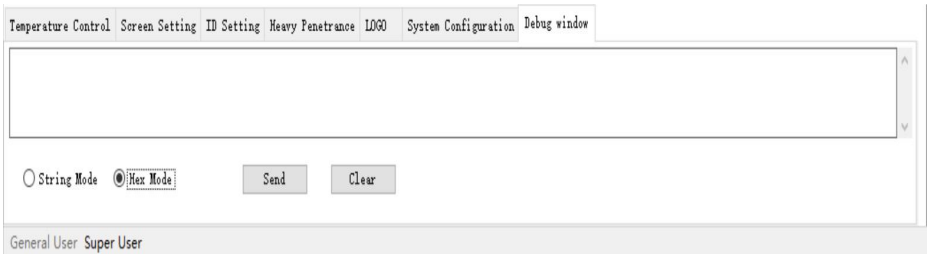


Open LOGO display switches and LOGO stitching function.



Timer switch, which utilizes the PC PC software generates a timer, according to the specified time to send commands to 717C switch box, in order to achieve the whole time switch.

General reset interface, password cjfw, this reset to reset all settings except (time limit and plans) outside, including soft ID will be reset. Also you can change the OSD language.

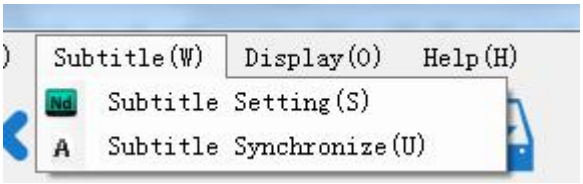


Debug window for engineer using debug.

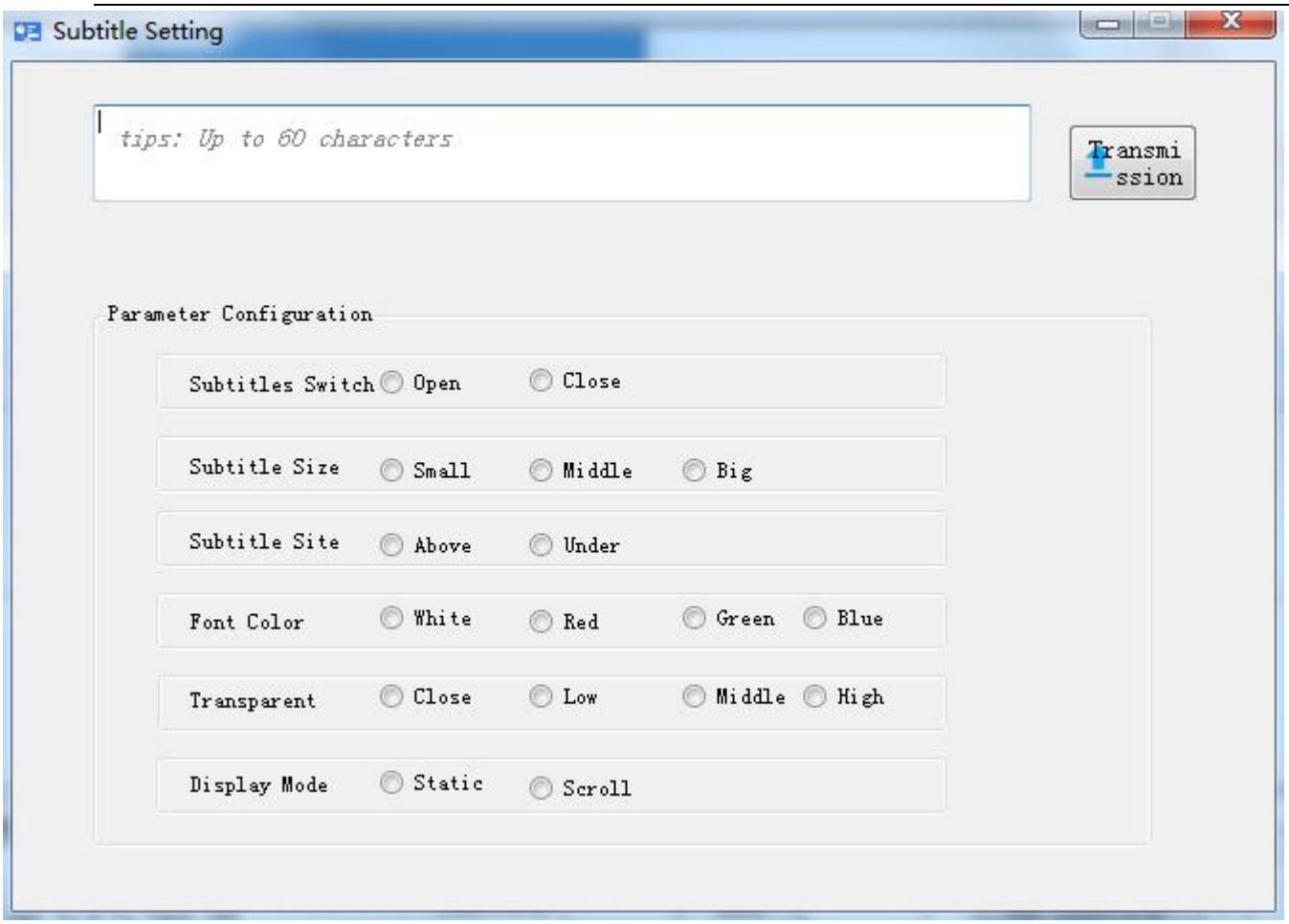
Subtitles Features

717C subtitle function by the upper and lower computer software to achieve, mainly through the chip UI enables captioning function, due to the chip comes with Store, so through the PC encoding content can be displayed in the form of a command is sent to the under-bit machine, and then implement subtitles.

Subtitles PC interface description, subtitles function again at 717C control software has two parts:

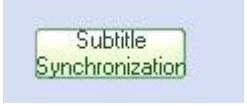


1 set of subtitles, when clicked, as shown below:



The main setting is the subtitle function switch, display, font size, font color and background transparency.
Subtitled content can not be checked 60 characters, including punctuation, English monospaced display.
Due to the realization of splicing subtitles, the stitching required to synchronize, it must be a monospaced font.

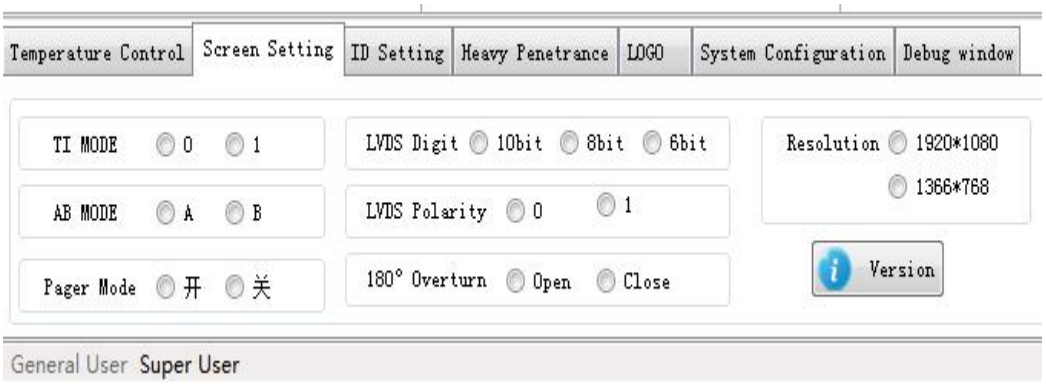
2 is a synchronous caption function, its role is to refresh each screen captions to a uniform starting point, then do the synchronization.



No signal LOGO stitching Features

This displays the power JPEG LOGO is under no signal, can be controlled by the stitching LOGO, LOGO LOGO master switch just control whether or not to display the boot. To choose the size after stitching LOGO can be spliced, subtitles, too, with the signal image stitching are separated.

Senate panel switching function and 180 degrees Features.



This configuration screen parameters, the type of screen parameters can be increased and flip.
Switching will be black screen parameters restart, Please note.
Flip switch can be used normally.

Chapter 7 Safety Precautions

7.1.1 Please read this manual;

7.1.2 retain this manual for future use;

7.1.3 before the device is turned inside the device should check whether there is abnormal;

7.1.4 Power on the device before the power supply voltage to be determined,which is exactly adjusted to 220V;

7.1.5 careful not to step on the power cord, do not cover the power cord;

7.1.6 before any part of the equipment to make changes, first off;

7.1.7 If the following occurs, please let service personnel;

7.1.8 The power cord or plug is damaged;

7.1.9 device does not work;

7.1.10 equipment damage;

7.1.11 equipment has obvious cracks.