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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:

📕 Multimedia control system		- 🗆 X
$Set(\underline{S})$ Tool(<u>T</u>) Plans(<u>P</u>) Subtitle(<u>W</u>) Display	() Help(H) Menu Area	
pen Connect Power On Power Off Save Machine Save P	Ian Read Plan Fuction Area	Input Channel: IN_1 ~
1-1	1-2	1–3
2–1	Operating Area	2–3
3–1	3–2	3–3
General User Super User		Connection Status: Disconnect

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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)"

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		Explanation		
IP Address	COM Select	The defaul	t serial communication na	rameters [.] 8 data h
192.168.201.192	COM4 ~	no parity,	1 stop bit	
Port	Baud Rate	Network co	nnection protocol: TUP co	nnection
23	9600 ~			
IP Address	COM Select	O Net	IP Address	COM Select
192.168.201.192	COM4 ~	• Seriel	192.168.201.192	COM4
Port	Baud Rate	C Serrar	Port	Baud Rate
23	9600 ~	Matrix	23	9600
	IF Address 192.168.201.192 Port 23 IF Address 192.168.201.192 Port 93	IF Address CUM Select 192,168,201,192 COMA ✓ Port Baud Rate 23 9600 ✓ IP Address COM Select 192,168,201,192 COM4 ✓ Port Baud Rate 23 9600 ✓	IP Address COMA Select The default 192.168.201.192 COMA ~ Port Baud Rate . 192.168.201.192 COMA ~ Port Baud Rate . 192.168.201.192 COMA . Port Baud Rate . 900 . .	IP Address COM Select 192.168.201.192 COM4 Port Baud Rate 192.168.201.192 COM4 Port Baud Rate 192.168.201.192 COM4 Port Baud Rate 23 Good 9600 WGA Matrix UM Select 192.168.201.192 Port Baud Rate 23 Good 9600 Watrix

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.

📕 计算机管理		
■ 文件(P) 操作(A) 查看(V)	窗口(\r) 帮助(\r)	<u>_8×</u>
 计算机管理(本地) 系统工具 共享文件夹 共享文件夹 本地用户和组 设备管理器 存储 政備管理 服务和应用程序 	 ■ XP-201010201134 + 2 DVD/CD-ROM 驱动器 + 1DE ATA/ATAPI 控制器 + 1DE ATA/ATAPI PARAME 	

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6.4 Splicing Screen Setting

🕿 multimedia control system					
Set(S) Tool(T) Plans(P) Subtitle(W)	Display(O) Hel	(H)			
pen Connect Power On Power Off Save Machine	e Save Plan Rea	l Plan			Input Char
1-1	😨 Splicing Screer	1–2 Setting	_	X	1-(
2–1	Row Cell	Column X 3 ode Free Mode] Vure d Mode		2-(

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;

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6.5 matrix configurations:

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Matrix Setting		<u></u>	X
Video Matrix Flowvis V ID: 00	VGA Matrix Flowvia V	ID: 00	
DVI Matrix Flowvia V ID: 00	HIMI Matrix Flowvia	ID: 00	
Time Setting Response 300 Intervals 300	Input Channel		
Time Instruction O Soreen O Matrix Preferences	Setting		

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 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.

QUMAO Shenzhen Qunmao Display Technology Co., Ltd OEM, ODM source factory for CD ommercial display screens Set(S) Tool(T) $Plans(\underline{P})$ Display(0) Subtitle(₩) Help(H) пп Disconnect Power On Power Off Save Machine Image Adjust Save Plan Read Plan 1^{-2} HDMI . DVI === VGA T 2^{-1} 2^{-2} VIDEO * **Display Unit**

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;

		Input Chann	el: <u>IN 1</u>	~
4、S	elect the merged are	ea.		
	Disconnect Power On Power Off	Save Machine Save Plan Read	P lan	
	1-1:HDMI	1-2:HDMI	1-3:HDMI	1–4
	2-1:HDMI	2-2:HDMI	2-3:HDMI	2-4

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
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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:

Multi	imedia contro	l system				
Set(S)	Tool(T)	Plans(P)	Subtitle(₩)	Display(0)	Help(H)	
a.		· ×				
Disconn	nect Power	On Power O	ff Save Machine	e Save Plan	Read Plan	
Set(S):	Setting fo	r uart:				
Set(5).	Setting 10	i uait,				
Tool(T):	Some fun	ction about	t screen;			
Plans(P):	Set some	plans which	n you often to u	ise;		
Subtitle(W):	Show som	e words on	screen;			
Display(O):	Some use	ful perfect f	for show;			
Help(H):	User Man	ual, and ch	ange the langu	age of tool;		
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6.7.1 Set(S)

This is set for uart setting;

6.7.2 Tool(T)

e Effect	<u></u>		Х
Horizontal Adjust 0			
Vertical Adjust 0			
	, 		
MAnnly 3	Reset		
	e Effect Horizontal Adjust 0 Vertical Adjust 0	e Effect - Horizontal Adjust 0 Vertical Adjust 0 Vertical Adjust 0	Horizontal Adjust 0

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



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Before using the frame

After using the frame

Static Screen:

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Freeze the video which picture you want to watch;

Save Machine:

Save user's changing;

6.7.3 Plan(P)

Save Plan: Save the splicing setting you want to show by hotkey;

Read Plan: Show the splicing setting which one you saved before;

Polling Plan: Show the splicing setting

6.7.4 Subtitle(S)

tij	os: Up to 60 cha	racters				T ransmi ssion
Pare	ameter Configuratio	n .h O Onen	Oflase			
	Subtities Swite	open (0 0000			
	Subtitle Size	⊖ Small	⊖ Middle	\bigcirc Big		
	Subtitle Site	🔿 Above	🔿 Under			
	Font Color	○ White	○ Red	🔘 Green	⊖ Blue	
	Transparent	◯ Close	◯ Low	⊖ Middle	⊖ High	
	Display Mode	○ Static	○ Scroll			

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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:

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.

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

Subtitle Synchronization

6.7.5 Dispaly(D)

Dis	splay(O) Help(H)		
2	HDMI Types(H)	•	DVD Mode(D)
Ā	Diaplay Model(S)		PC Mode(P)
9	Query Display(D)		
2	Infomation Diaplay(I)		
Lø	Clear Query(C)		

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.

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 mode The 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.

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Query Display: Query monitor status;

Information Display: Show the Monitor version infor;

Clear Query: Clear the info menu;

6.7.6 Help(H)

This is for help and change this tool language.

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.

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	- T - T												 	-	-	_		_	-	_			-	DEP-OFF OOF
					_																			NGD. 200, 200
																								O Posit Regul
																						1		
																								O Anti-
Colo	r Adjus	t VGA	Fine A	.djust	Bac	klig	ht Bri	ightn Rei	ess A d Ga	adjus ain	it	-				Red				-		+		Color Ad
B	rightr	nes –														Com	ens	ati	on					
B: Sa	rightr Aturati	on –		+				Gr	een	Gai	n	-				Gree Com	en Dens	ati	on	-	-	+		Positi Adjus
B. Sa Ci	rightr Hurati	on -		+				Gr B1	een ue (Gai Gair	in [1	-				Gree Comp Blue Comp	en Dens Bens	ati ati	on	-	-	+		Positi Adjus Reset

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

6.8.1 Color Adjust

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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.

6.8.2 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;

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

Swatches:

																								RGB:255,23
																								O Posi Regu
																								O Anti Regu
			_					_			-		-						_		-		1	
Color	Adjust	VGA F	ine A	ljust	Ba	ckli	ght I	Brigh	ntnes	s Adj	ust													
Color . Bri	Adjust ghtnes	VGA F	ine A	ljust	Ba	σkli,	ght I	Brigh	ntnes Red	s Adj Gain	ust	_		+		1	Red				_	+	1	Color Ad
Color Bri Satu	Adjust ghtnes gration	VGA F 5	ine A	ljust +	Ba	ckli	ght I	Brigh] (ntnes Red Gree	s Adj Gain en Ga	ust n ain	-		+]	Red Comp Gree	ens en	sati	ion	-	+		Color Ad Positi Adjus
Color Bri Satu Con	Adjust ghtnes gation trast	VGA F	ine A	ljust + +	Ba	ckli	ght I	Brigh] (]	utnes Red Gree Blue	s Adj Gain en Ga	ust 1 1 1 1 1	-		+	•		Red Comp Gree Comp Blue Comp	ens en ens	sati sati	ion	-	+++++		Color Ad Positi Adjus Rese

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

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Color Adjust VGA Fine Adjust Backli	ight Brightness Adjust	
Horizontal 🗕 🔶	Red Gain 🗕 🔶	Red 🚽 🛶
Vertical 🗕 🔶 Position	Green Gain 🗕 🔶	Green 🗕 🔶
Clock 🗕 🛨	Blue Gain 👝 🔶	Blue 🗕 🔶
Phase 🗕 🔶		

6.8.3 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).

6.8.4 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.

6.8.5 front-end brightness compensation

Red: Adjust the color temperature compensation dark red component;

Green: Adjust the color temperature compensation dark green component;

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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.

6.8.6 Backlight Brightness Adjust

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

Color Adjust	VGA Fine Adjust	Backlight Brightness Adjust		
Backli Adjust	ght 😑	+		
DILDU				

6.9 Special additional functional area (password required background):

QUMAO	Shenzhen Qunmao Display Technology Co., Ltd
	OFH ODH answers for the OD announcial disalar and an

UEM, U	JDM Source factory for C	Dominercial display screet	15
Set(S) Tool(T) Plans(P)	Subtitle(W) Display(O) Help	(H)	
visconnect Power On Power Off	Save Machine Save Plan Read	Plan	
1—1:НДМІ	Enter Password	×	1-4
2-1:HDMI	2-2:HDMI	2-3:HDMI	2-4
3–1	3–2	3-3	3-4
ieneral User Super User			

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

Temperature Control Df 32 32 FE 00 AA Temperature Control Sereen Setting ID Setting Newry Penetrance L000 System Configuration Debug vindow PHOOPWOIGHT PHOOPWOIGHT PHOOPWOIGHT PHOOPWOIGHT PHOOPWOIGHT PHOOPWOIGHT	3-1	3-2	3-3	3-4	3–5
Temperature Control Screen Setting ID Setting Newsy Penetrance LD60 System Configuration Debug window PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH PHODWDIODH					
O Fux open O Fux Off Prostrosout Prostrosout Prostrosout Prostrosout	Temperature Control Screen Setting ID	Setting Henry Penetrance 1000 System C tic en OFan Off	onfiguration Debug vindow		0 65 02 77 00 AA PHOMPOLOINT PHOMPOLOINT PHOMPOLOINT PHOMPOLOINT PHOMPOLOINT PHOMPOLOINT 105 11 32 20 05 AA 105 11 32 55 01 AA 151 11 32 55 01 AA 151 11 32 55 01 AA PHOMPSOLOINT PHOMPSOLOINT

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.

rature Co	ontrol	Screen Setting	ID Setting	Heavy Penetrance	1060	System Configuration	Debug window
TI MODE	00	() 1	LVDS Digi	t () 10bit () 8b	it () 6	bit Resolution (Consult	○ 1920*1080
AB MODE	\bigcirc a	O B	LVDS Pola	rity 🔿 0 🛛 🤇) 1	Factory)	0 1366*768
Pagar Mada	0 =	O¥	180° Over	turn O Open () Close	👔 v.	ersion

There are a number of test items set about 717L 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.

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Cemperature Control	Screen Setting	ID Setting	Heavy Penetrance	T030	System Configuration	Debug window		
Tips: Number of rows soft address	or columns is s	et to O to t	arn off			Identifier	Rows	See Identifier Produce Identifier
							Application	Close Menu
ieneral User Super	User							

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.

Temperature Control	Screen Setting	ID Setting	Neavy Penetrance	1000	System Configuration	Debug window		
Power LDGO							No Signal LOGO	
) 1000 Off) 1000 Open	⊖sti ⊖sti	tching Off tching Open) Blue Screen) Black Screen) LOGO) Stitching Open) Stitching Off
General User Super	User							

Open LOGO display switches and LOGO stitching function.

Language () Chi Select	nese () English		Password	🙆 Reset
			Upgrade	

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.

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Temperature Control	Screen Setting	ID Setting	Heavy Penetrance	LOGO	System Configuration	Debug window
) String Mode	🖲 Hex Mode	:	Send Cl	ear		
Consul User Consu	Uses					

Debug window for engineer using debug.

Senate panel switching function and 180 degrees Features.

Cemperature Control	Screen Setting	ID Setting	Heavy Penetrance	1060	System Configuration	Debug window
TI MODE 💿 O	© 1	LVDS Digi	t 🔘 10bit 🔘 8bi	t 🔘 6	bit Resolution	◎ 1920*1080
AB MODE 💿 A	🔘 B	LVDS Pola	rity 🔘 0 🛛 🔘	1		0 1366*768
Pager Mode の开	⊘ ¥	180° Over	turn 🔘 Open 🔘	Close	🚺 Ve	rsion

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;

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- 7.1.4 Power on the device before the power supply voltage to be determined, which is exactly adjusted to 220V;
- careful not to step on the power cord, do not cover the power cord; 7.1.5
- before any part of the equipment to make changes, first off; 7.1.6
- If the following occurs, please let service personnel; 7.1.7
- 7.1.8 The power cord or plug is damaged;
- device does not work; 7.1.9
- equipment damage; 7.1.10
- equipment has obvious cracks. 7.1.11