

Multi-media matrix switcher

User manual V1.0

SHENZHEN CREATEK ELECTRONIC CO.,LTD http://www.ckdz.com/

Attention: Please read this manual carefully before using this product and keep it for future reference.

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1. Safety Notice



There's high voltage in processor. To avoid danger, please do not open rear cap without authorization.

Marning

- 1. Do not allow liquid, small particles or other objects to get into the device;
- 2. Do not place the system near fire and water;
- 3. Do not block any vents. To keep good ventilation, please place the system at least 20 cm away from a wall surface;

4. If any noise, smoke, smell, please cut off the power at once and contact your local suppliers;

5. Do not connect or disconnect DVI signal cable when the power is on.

Attentions

- 1. Read the manual carefully before using the system, and keep it for later use;
- 2. Check the packing list to confirm if there is any missing .If there is , please contact the local supplier.
- 3、Cut off the power if thunder or the machine is not used for long term ;
- 4. You should be well trained before operating the system;
- 5. Do not slip anything from vent to prevent broken or electric shock;
- 6. Do not place the device near liquid or moisture;
- 7. Do not put the device near heat sink or high temperature environment;
- 8、Keep the power cable properly;
- 9. If the following situations happen, please cut off the power and for maintenance
 - 1) Liquid splash to device;
 - 2) Device fall down or the cabinet is broken;
 - 3) Any abnormality or malfunction in the system

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2. Function Overview

CKPS - 802 is a professional audio/video switching equipment. The device integrates the leading technology of Createk company for many years on the audio and video image processing, high-definition signal processing and displaying .It adopts the patent technology of hardware design. It allows users to switch a variety of audio and video signals synchronously, and can also to adjust related parameters. It is a high performance device ,addressed to multimedia conference room ,educational facilities ,command and control center etc.

CKPS - 802 has the following features:

 Hardware-based structure, no CPU and operating system. With core operation mechanism, it has no trouble of plug-in processor system's crash ,blue screen and virus 's risk.Start time less than 5 seconds, 365 * 24 hours continuously and stability working.

2. It adopts advanced video image processing chip and algorithm design to realize HD video and high resolution computer signals' s real-time sampling, transmission and processing, without delay, trail or frame loss phenomenon. It deals with the image quality to be good ,smooth.

3. It supports multiple format signals input. 1channel video with audio input, 1channel
YPBPR with audio input, 2 channel VGA signals with audio input, 2 channel HD DP inputs,
2 channel HDMI inputs;

4、 Input resolution up to 1024 x768 ~ 1920 x1200; output resolution up to 640 x480 ~ 1920 x1200 ;

5. With the power-off field protection ,input front-end adaptive compensation and other functions, it supports the input signal condition monitoring and can Real-time monitor and display the current input channel signal information;

6. It can adjust the brightness, contrast ratio, saturation, tonal, sharpness, phase of the output image; and also can adjust the volume, sound of the output audio;

7. With the global general wide voltage design, it can adapt to AC 100 \sim 240 v, 50/60 hz;

8. This product provides a good man-machine interface for the user. With the parallel port, Ethernet and RS232 communication interface, and also with the special matching control software, the series of products can work very well with the computers, remote control system or other remote control equipment.

3. Hardware structure

3.1 Product elevation





Figure 3.1Product elevation

3.2 Rear panel diagram



- 1.VGA1 input
- 2.VGA1 VGA1 's corresponding audio signal input
- 3.VGA2 input
- 4.VGA2 VGA2 's corresponding audio signal input
- 5. YPbPr input
- 6. VGA2 's corresponding audio signal input
- 7. CVBS input
- 8. Parallel control interface
- 9. DP1 input
- 10. DP2 input
- 11. HDMI1 input
- 12. HDMI2 input
- 13. HDMI LOOP out
- 14. HDMI output interface
- 15. analog audio output
- 16. Digital Audio Output
- 17. Com RS 232 control interface
- 18.RJ 45 control interface
- 19. power amplifier interface
- 20. 5 v power supply output interface
- 21. (100-240VAC,50HZ/60HZ) Power socket and switch
- 3.3 Front panel diagram





Figure 3.3 front panel diagram

- 1. Power: The power indicator light
- 2、Active: ormal work indicator
- 3、Control: Control indicator light
- 4、IR: IR Receiver

4. Introduction of control software

4.1 How to install the control software

CKPS-802 full-color LED video processor adopts user-friendly design. Its control software requires no installation and the volume is small. The root folder includes following files, you can copy it to any place of the control computer and then double-click it to execute file program. It saves tedious software installation steps and time. Even computer entry-level users can operate it quickly and easily.

en-US	CKPS-802-DEBUG CKPS-802-DEBUG SZCKDZ	🍓 dm all. all	dmdll_multi.dll	
QLFUI. 411 1.0.0.0 QLFUI	System9X 配置设置 1 KB			

Figure 4.1 Folders of control software system

Program operating environment: CPU: more than P4;

Memory: more than 512M;

Hard disk: more than 40G.

- 1) 【en-US】:sub-file:"CKPS-802-DEBUG.resources.dll", lack of the file will not be able to use English language;
- 2) 【dmdll.dll】:Application configuration file
- 3) [dmdll_multi.dll] :Application configuration file
- 4) **[**QLFUI.dll**]** :This is a mode storage file, and pre-set 16 kinds of mode information.
- 5) [System9X.ini] :Application configuration file
- 6) [CKPS-802-DEBUG.exe] : Double click the file to operate control software.

Attention: the above six files are all necessary to guarantee the control software operation, and



they all need to be in the same file .Please do not alter the file, otherwise it will cause software abnormal use.

4.2 How to operate the control software

Double-click application file"CKPS-802-DEBUG.exe" to open the control software interface, as shown in the figure below:

Menu	CKPS-802-DEBUG BasicSetting OSD TimeSetting Help Status DN(0) OFF (5) ON/OFF (C) Restart (B)	CurrentTime: 10:28 38 Com	nmunication
Power on/off	VGA Adjust VGA Adjust Signal: AV ADC AUTO (1) SignalPIP: AV OutputResolv 1024*768 Vol Setting		
Signal source selections and output settings	Vol: 0 0% mule Bass: 0 Treble: 0 VolBalan 0 VolBalan 0 HicrophoneSet		Status display
Sound settings	MicrophoneVo0 - + Mute InsgeTroperty BRI: 0% CON: 0%		information
Image parameter	Color: 0% ControlType: @ COM NET Language: 2520 - COM: COM3 - Baud: 115200 -	onnect	Communication settings Language selections

Figure 4.2 software interface

4.2.1 Serial port connection

Click **COM** in the area of ControlType, then select COM port between the device and computer. Baud rate should be set to 115200. Click **Connect** is to finish the setting.



Figure 4.3 Serial port connection

4.2.2 Network Connection

Connect the device to LAN and select [NET]in[Control Type], then click the[Search]

for IP lookup. When	DeviceIP:				shows the LAN IP of the
device, then click the	[Connect]	. See IF	P address	set	tings in later introductions.

C GKDZ		CKPS-802Mult	i-media matrix switcher
ControlType: 🔵 COM 🛛 🍥 NET	Language: En-US	•	
DeviceIP:	DevicePort:	27011	Search Connect
LocalIP: 192 168 0 68	LocalPort:	5000	IP Config

Figure 4.4 Network Connection

4.3 How to operate control software

4.3.1 Language selections

Select Chinese or English in pull down menu of "Language", the picture below shows the english software interface.

CKPS-802-DEBUG			
BasicSetting OSD TimeSetting Help			CurrentTime:10:35:3
Status ON (Q) OFF (S) ON/OFF (C) Signal: AV Signal: AV OutputResolv	Restart (B) Not AUTO (I) 1024*768	connected! padta (M)	Clear
Vol Setting Vol: C Bass: C Treble: C VolBalan	0% Mute 0 0		
MicrophoneSet MicrophoneVo <mark>0 - +</mark>	Mute		
ImageProperty BRI: CON: Color:	0% 0% 0%		
ControlType: OCOM ONET Language: DeviceIP: 192, 188, 0, 88	En-US En-US 简体中文 LocalPort: 5000	Sea v	rch Connect IP Config

Figure 4.5 Language selections

4.3.2 Menu

Select a corresponding menu item, and the software interface will change

accordingly.Here is the menu functions:

[BasicSetting] Basic Settings, including Power on/off and audio/video signals settings, etc.;

[OSD] Menu display, display OSD information of the device;

【Timesetting】 Automatic timing switching of the signal windows

[Help] Help information, display version information of the software.



CKPS-802-DEBUG		CKPS-802-DEBUG	
BasicSetting OSD TimeSetting Help	CurrentTime:10:39:44	BasicSetting OSD TimeSetting Help	CurrentTime:10:40:48
Status DF (S) 08/077 (S) Restart (Q) Signal: AV AEC AVTO (Q) Signal: AV AEC AVTO (Q) Signal: AV OutpatResol: 1024*760 VOL Vol: Og Hute Not Og Vol: Og Og Hute Not Vol: Og Og Hute Not Not: O Og Not Og Ni: CophoneSet Og Not Og Bass: O OS OS OS ControlType: COM NET Language: DeviceTort: DeviceIP: DeviceIP: DeviceIP: Social Social	Clear Search Connect IF Config	A (0) + (0) Image: Construction of the set of the se	Clear Search Connect IP Config
CKPS-802-DEBUG		CKPS-802-DEBUG	
BasicSetting OSD TimeSetting Help	CurrentTime:10:42:43	BasicSetting OSD TimeSetting Help	CurrentTime:10:43:15
Index Source PipSource Time		About CKPS-802-DEBUG Not connected!	Claar
		で定にして <i>CRア5-802-Debug</i> Copyright® 2011 SICUIZ, All Rights Reserved 色明公司 新祝所有	
ChangeSourceAdd is on SourceSelect AV V PijSource: AV V TimeSelect 12:00:00			
LocalP: 192, 188, 0, 88 LocalPort: 2000 *	Search Connect IP Config	LocalF: 122 168 0 68 Language Far US •	Search Connect IP Config

Figure 4.6 Menu

4.3.3 Settings of power on/ff



Figure 4.7Settings of power on/ff

Select corresponding button to realize boot, standby, boot/standby, restart etc..

4.3.4 Settings of input signals

Signal:	AV	•
C: 1070.	AV	
SignalFIF:	YPbPr	
N 3 6	VGA1	
Vol Settin	C VGA2	
Vol:	HDMI1	
	HDMI2	
Bass: 5	DP1	
	DP2	
Trable	240	

Figure 4.8 signal sources selection





There are eight kinds of input signal sources options:2 channel VGA, 2 channel HDMI, 2 channel DP, 1 channel AV, 1 channel YPBPR.

6.3.5 Settings of output resolution

10 kinds of output resolution are available:

- 1.1920X1080/60Hz
- 2.1280X720/60Hz
- 3.1024×768/60Hz
- 4.1280X1024/60Hz
- 5.1366X768/60Hz
- 6.1400X1050/60Hz
- 7.1600x1200/60Hz
- 8.1280*768 /60HZ
 - 9.800x600

10.640x480

1024*768	
 1280*1024	
1366*768	-
_ 1400*1050	
1600*1200	12
 - 1920*1200	
640*480	
800*600	*

Figure 4.9 Settings of output resolution

4.3.6 Analog signal adjustment

VGA Adjust	
ADC	AUTO (<u>T</u>)

Figure 4.10 Analog signal adjustment

It can do ADC correction or automatic adjustment (AUTO) for VGA, AV, YPBPR etc. to solve the problem of wrong color or black border .

4.3.7 Sound settings



Vol Setting		the second s
Vol: G	0%	Mute
Bass: 0	0	
Treble: 🛢	0	
VolBalan 🜔 👘 🚺	0	

Figure 4.11 Sound settings

VOL: Volume settings

MUTE: Muting switch (ticking" Mute "indicates open)

BASS 、 TREBLE: Bass and treble settings

VOLBALAN: Volume balance settings

4.3.8 Color settings

BRI:	0	0%
CON:		0%
Color:	0	0%

Figure 4.12 Color settings

BRI: Brightness adjustment CON: Contrast adjustment

COLOR: Color settings, it works for video.

4.3.9 IP address Settings

ControlType:	🔘 COM 💿 NET	Language:	En-US	•	
DeviceIP:	n n n		DevicePort:	27011	Search Connect
LocalIP:	192 168 0	68	LocalPort:	5000	IP Config

Figure 4.13 Network connection

In the use of network communication, click the **[**IP config**]** to enter the IP Settings as below:



S	earch			IP Address	192. 168. 0. 250
No.	DeviceName	IPAddress	PhysicalAddress		
V 1	NP-L	192.168.0.250	00. FO. OA. 03. 17. 55	Subnet Mask	255, 255, 255, 0
				Getway	192. 168. 0. 252
				Port	8000
				Baud	115200 👻
				Local IP Address	: fe80::143d:15ad:3f
				Local Port:	52428
				DeviceIP:	52428

Figure 4.14 IP address Settings

- 1. Click [Search], and the following dialog will display the devices' s IP address (The user can also reset the device network module first, and then click [Search]. The below dialog shows a IP address:192.168.0.250. It is a default IP address after the reset)
- Double-click the [NO] (namely in figure 6.13), and it will pop up a login dialog box. Enter your user name and password to login (user name and password both are admin), as below:

Sear	chDevice			IP Address:	
No.	DeviceName	IPAddress	PhysicalAddress		
1	CKDZ_9X net	192.168.1.212	00. FO. 0A. 03. 17. 20	Subnet mask:	
				Gateway:	
	P My	_Password		Port:	8000
	User Name	e		Baud:	8
	Password	a:		Local IP Address:	192. 168. 1. 81
		OK		Local Port:	
				Device IMP Port	

Figure 4.15 Login



3. After a successful login, uncheck the check box "Auto get IP" and fill in the IP address, gateway etc.. (IP address should be the network segment of the machine work area, and any unused IP can be set), as below:

📝 Auto get IP	Allow UDP Link
IP Address	
Subnet Mask	
Getway	
Port	8000
Baud	-
Local IP Address:	192. 168. 0. 68
Local Port:	
DeviceIP:	
	Setting

Figure 4.16 The interface of IP address input

4.3.10 Status information display



Figure 4.17 Feedback information of working state

- 1 Refresh feedback information
- 2 Clear feedback information area
- ③ Feedback information display area, which shows current state of the display device.



5. Technical specification

Input signal	2 HDMI 2 Display Port 2 VGA 1 compositive video 1 YPBPR Universal I/O connector, 6input (GPIO, 6 input)	Output signal	1 HDMI 1 HDMI LOOP out Universal I/O connector, 2 Output (GPIO, 2out)
Input connector	HDMI female VGA , 15pin female Display port connector , female BNC female connector BNC female connector	Output connector	HDMI female HDMI female Universal I/O connector, 6input, 2output, (24V/500mA, 25pin,see pin chart in user manual)
Input video format	HDMI 1.3 RGBHV, RGBs, RGsB, RsGsBs; Y-Pb-Pr NTSC 3.58, NTSC 4.42,PAL, SECAM	Output video format	HDMI 1.3 RGBHV, RGBs, RGsB, RsGsBs;
Video conventio	onal parameters		
Output resolution	1080P, 1920*1080; 720P, 1280*720; 1280*768/60HZ SXGA+, 1400*1050; SXGA, 1280*1024; UXGA, 1600*1200; 1366*768 XGA, 1024*768; SVGA, 800*600; VGA: 640*480	Video bandwidth	HDMI: 10.2Gbps DP: 10.8Gbps composite video: 150MHz Y-Pb-Pr: 150MHz VGA: 375MHz
Maximum pixel clock	165MHz	Switching mode	Quick Switch
Switching speed	200ns (maximum.)	Video switching	Quick Switch



VGA crosstalk	-50dB@5MHz	Video impedance	75Ω	
Signal gain	0dB	Input/output level	0.5V~2.0Vp-p	
HDCP	Compliant with High-bandwid and HDMI 1.3 standards	th Digital Content	Protection (HDCP) using DVI	
Audio input		Audio output		
Input format	7 stereo input 1 Microphone Input	Output format	 Stereo master volume output S/PDIF output amplifier output 	
Input connector	4 Embedded Audio 1 BNC/RCA Audio input connector for compressed video and composite video 2 3.5mm VGA audio input plug 1 6.5mm microphone jack	Output connector	1 Captive screw connectors, 5 pole 1 S/PDIF Coaxial stereo interface 1 20*2 watts audio amplifier	
Input impedance	>10Ω	Output impedance	>600Ω	
Audio conventional parameters				
Pin Configurations	tip(L);ring(R);sleeve(groun ding)	Stereo Channel Separation	>80dB @1KHz	
Frequency Response	20Hz~20K Hz	Common-mode rejection ratio (CMRR)	>75dB @20Hz to 20K Hz	
Controls parame	eter			
Control mode	RS232 serial port control, local area network	Front Panel Control	optional	
Serial Control Port	RS-232, 9-pin female	Serial control port structure	2 = TX, 3 = RX, 5 = GND	



Infrared control	Default infrared remote control	Network control	Local Area Network
Other specifications			
Temperature	-20 ~ +60 ℃	Humidity	5% ~ 95%
Power Supply	100VAC ~ 240VAC, 50/60Hz	Power Consumption	25W
Case Dimension	480 (W) x 48 (H) x 310(D) mm (1U case)	Product Weight	2.45Kg

Table 5.1 Technolog	y parameters
---------------------	--------------

6. Communication port connection and the remote control

corresponding table

6.1 RS-232 Communication port

The CK5 offers standard DB9 RS-232 serial controlling port. It can be controlled by any other third party control device. RS-232connecror is 9pin female.RS232 pin chart is as follows:

Pin#	Name	Description
1	NC	
2	TXD	Signal transmitter, connect to device RXD
3	RXD	Signal receiver, connect to device TXD
4	NC	
5	GND	Connect to device GND
6	NC	
7	NC	
8	NC	
9	NC	

Table 6.1 RS - 232 port pin configuration

Attention: Please pay attention to TXD and RXD cable sequence when connecting the processor's RS - 232 port to the computer or central controller. As below:



TXD	2	2	RXD
RXD	3	3	тхр
CND	5	5	CNID
GND		\neg	GND

Processor	Computer
Figure 6.2 communicatio	n line structure's diagram

- 6.2 Table of remote control menu
- Power: Powen on or enter standby
- Auto: VGA signal position auto adjustion
- Info: showing working staus
- Screen up: motorized projector screen up
- Screen down: motorized projector screen down
- MIC mute: Microphone mute
- MIC vol+: MIC volume +
- MIC vol-: MIC volume-
- Line mute: LINE audio mute
- Line vol+: LINE audio volume +
- Line vol-: LINE audio volume-
- Resol+: Resolution+
- **Resol-: Resolution-**
- Main Source: main source selection switch
- PIP/POP on: switch between signal sourse, PIP mode, POP mode
- Sub Source: Sub window input source selection switch
- PIP Position: PIP position adjustable
- PIP size: PIP size adjustable
- Menu: open OSD menu, or back to previous menu
- Enter: enter menu setting





Table 6.3 Remote control menu

6.3 table of 9X control command

	98	control comman	d
	command Format: character		
	string, case sensitive		
	Network control: TCP		
	protocol		
	Serial port control: baud		
	rate: 115200 data bits: 8		
	stop bit: 1 parity check:		
	no		
NO.	Command type	command	Description
1		Power change	Power on/off
2		Power on	Power on. No reaction if the
2	Power control		machine is on.
	Fower control	Power off	Power off. No reaction if the
			machine is off.
3		Restart	Restart the machine.
4		R 720P	Set the output resolution to 720P.
5		R 1080P	output resolution 1080P.
6	Setting of output	R 640*480	output resolution 680*480.
7	resolution(60Hz)	R 800*600	output resolution 800*600.
8		R 1024*768	output resolution 1024*768.
9		R 1366*768	output resolution 1366*768.



10		R 1280*1024	output resolution 1280*1024.
11		R 1400*1050	output resolution 1400*1050.
12		R 1600*1200	output resolution 1600*1200.
13		R 1920*1200	output resolution 1920*1200.
14		AV	main signal source is CVBS
15		YPbPr	main signal source is YPbPr
16		VGA1	main signal source is VGA1
17		VGA2	main signal source is VGA2
18		HDMI1	main signal source is HDMI1
19		HDMI2	main signal source is HDMI2
20		DP1	main signal source is DP1
21	Oime al a suma a su itabia a	DP2	main signal source is DP2
22	Signal source switching	PAV	PIP signal source is CVBS
23		PYPbPr	PIP signal source isYPbPr
24		PVGA1	PIP signal source isVGA1
25		PVGA2	PIP signal source is VGA2
26		PHDMI1	PIP signal source isHDMI1
27		PHDMI2	PIP signal source isHDMI2
28		PDP1	PIP signal source isDP1
29		PDP2	PIP signal source isDP2
30		Menu	Recall the menu
31		Left	Go to the left
32	Manu control	Right	Go to the right
33	Menu control	Up	Go to the upward side
34		Down	Go to the downward side
35		ok	For confirmation
36		Mute	No Volume
37		Vol up	Increase the volume by 1 unit
38		Vol down	Decrease the volume by 1 unit
	Volume control	Vol xxx	"xxx" is a decimal number, ranging
39			from 0 to 100. To set the volume to
			a certain value, like "Vol 10".
40		Bass xx Treble xx	To set the treble to a certain
-0			value , from 0 to 100.
41			To set the treble to a certain
			value , from 0 to 100.
			To set the sound track balance to
		Balance xx	a certain value, from 0-20 ."0"is
42			the biggest left channel , "10"is the
			balanced value and "20"is the
			biggest right channel.
36		MMute	Microphone mute
43		MVol up	Increase the microphone volume



			by 1 unit
		MVol down	Decrease the microphone volume
44			by 1 unit
			"xxx" is a decimal number, ranging
4-			from 0 to 100. To set the
45		MVOI XXX	microphone volume to a certain
			value, like "Vol 10".
			To set the main channel
48		Bright xxx	brightness to a designated
		_	value."xxx" ranges from 0 to 100.
			To set the main channel contrast
49		Contrast xxx	to a designated value."xxx" ranges
	Image control		from 0 to 100.
		Color xxx	To set the main channel chroma to
50			a designated value."xxx" ranges
			from 0 to 100.
		Sharpness xx	To set the main channel
51			sharpness to a designated
			value."xx" ranges from 0 to 24.
50		ADCCal	ADC Calibration, Only effective to
52			analogue
			Automatic line and field
53		Auto	synchronous adjustment, and only
			effective to VGA.
54		Pip on	Open the PIP
55		Pip off	Close the PIP
			To set PIP
50		Pipb xxx	transparency."xxx"value ranges
90			from 0 to 100.0 is opacity,and 100
			indicates the most transparent.
		Pip size	To recall the window size of
	PIP control		preset PIP ,four options:present
	(Attention: screen		size,1/4, 1/2 in the left,full screen.
	size:100*100,top left corner	Pip position	To recall the window positon of
	(0, 0), down right corner		preset PIP ,six options:present
	(100, 100), and no relation		position,top left corner, top right
	to output resolution.		corner,lower left corner,lower right
			corner,center.
		PipSize	To set the PIP window size. The
57			"www" value ranging from 0 to 100
			indicates the window
		www,hhh	width."0"indicates unchanged
			and "100" the biggest width.The
			"hhh" value ranging from 0 to 100



			indicates window height."0
			"indicates unchanged, "100"
			the largest height.
58		PipPos xx,yy	To set the central position of the
			PIP window."xx"indicates the
			horizontal coordinates and the
			value ranges from
			0-99."yy"indicates the vertical
			coordinates and the value ranges
			from 1 to 99.When the coordinate
			is "0",it means the current
			coordinate is unchanged; when the
			central positon is contradictory to
			the window size, the position will
			adjust automatically.
59	Network module reset	NTFT	Reset the network module to initial
			value: IP address for
			192.168.0.250, port for 27011,
			baud rate for
			9600. Need to set the module
			again After reset

7. Common troubleshooting and maintenance

1) If the power indicator does not turn bright and the operation has no reaction, please check whether the power cable input is of fine contact.

2) If the power indicator turn bright, but no image and sound output, please check whether the device is in standby state. (In standby state, the small light on the right side of Ethernet port is red)

3) The picture partial color phenomenon or no video signal output, it may be both ends of signal line joint not to be connected properly.

4) If there is no audio output, please check whether the audio signal in corresponding signal channel is inputted, whether the volume is set in quiet state, or the speaker opens or not.

5) Serial port can not control the device, please check whether the communication port set by control software is the same as device's serial port, or check if the computer communication port is in good condition.



6) When the network can't control the device, please check whether the device is connected to the local area network or to find if the device's IP is occupied, The user can also change the serial control to confirm whether it is the problem of the device itself.

7) If the output image can not display normally, it is possible that input/output device is without good ground connection.

8) There are obvious static electricity when connect or disconnect connectors. Possible reasons:ground well.When the user connects or disconnects connectors, there are obvious static electricity; it is probably caused by wrong ground connection of the power supply ground wire . please make sure the right ground-connection.Or else, the wrong operation will damage the machine and shorten the lifespan.

Attentions:

1 The above listed is the common failure in after-sales maintenance. If you find the device failure phenomena are not in above range. Please notify the suppliers to solve as soon as possible. Please do not open the case without authorization, so as not to expand the fault or cause unnecessary safety accidents.

2 Our company reiterates: without the permission, you who take device apart will bear all the responsibilities that it may bring.





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