

LED-F802/F804 Video Control Server

User Manual V1.0



A Before using this LED video processor, please read this instruction manual carefully and keep it for future reference.

MAGNIMAGE

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Statement

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The product specifications and information mentioned in this manual are for reference only and are subject to update without notice. Unless otherwise agreed, this manual is only used as a guide, and all statements, information, etc. in this manual do not constitute any form of guarantee.

Revision History		
Version	Revise Date	Revised Content
V1.0	2023-10-20	First release

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Introduction

Thank you for purchasing our company's LED all-in-one video controller. Hope you can enjoy the excellent performance of this product. The design of this LED all-in-one video controller complies with international and industry standards, but improper operation may still cause personal injury and property damage. In order to avoid the possible dangers caused by the equipment, and to benefit from your equipment as much as possible, please follow the relevant instructions in this manual when installing and operating the product.

Trademark Credit

- VESA is a trademark of the Video Electronics Standards Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- > Even if the company or product trademark is not specifically stated, the trademark has been fully recognized.

About the software

It is illegal to modify, decompile, disassemble, decrypt or reverse engineer to the software installed on this product.

Product Features

- Standard multiple input interfaces: HDMI×1、DVI×1、CVBS×1、VGA×1、USB×1
- Supports 2-way or 4-way gigabit network port output, and supports custom output resolution
- Single network port standard load 0.98 million pixels
- Single machine can carry maximum width 3840 pixels and maximum height 3840 pixels
- Support quick light screen, no need PC software to configure the screen
- Support image capture functions
- Support connection to MAGNIMAGE C-Link series receiving cards
- Support free wiring function
- Support single machine network port backup
- Support receiving card serial number calibration, switch on the intelligent serial number to visually check the position of the box
- Support RS232 central control
- Support for wireless screen adjust
- Support external independent audio input
- Support the read and load of configuration files from native U disks

Safety Notice

The input voltage range of the power supply of this product is 100~240V, 50/60Hz, please use the correct power supply.

When you want to connect or unplug any signal cable or control cable, please make sure that all power cables have been unplugged beforehand.

When you want to add hardware devices to this product or remove

hardware devices from this product, please make sure that all signal cables and power cables have been unplugged in advance.

Before performing any hardware operations, power off the LED video processor and discharge static electricity from your body by touching a grounded surface.

Please use it in a clean, dry and ventilated environment, and do not use this product in a high temperature, humid environment.

This product is an electronic product, please keep it away from fire, water and flammable and explosive dangerous goods.

There are high-voltage components in this product, please do not open the case or repair the device by yourself.

If you find any abnormality such as smoke or odor, please Function off the power switch immediately and contact the dealer.

Features

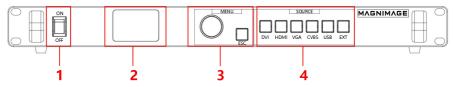
Overview

LED-F802/F804 is a video controller launched by Maipu Shitong that integrates a video processor and sending card, with a complete video image input interface, including 1 \times VGA, 1 \times DVI, 1 \times HDMI, 1 \times CVBS, 1 \times USB, supporting full HD signal input;The LED-F802 single machine carries 1.96 million pixels and supports 2 gigabit network ports for output; The LED-F804 single machine carries 3.92 million pixels and supports 4 gigabit network ports for output; The LED-F802/F804 machine has a maximum horizontal resolution of 3840 pixels and a maximum vertical resolution of 3840 pixels.

We have adopted industry-leading image processing chips and internal 12 bit digital processing, resulting in clearer images and richer colors. Advanced interlaced motion image adaptive processing technology eliminates motion tailing and aliasing in video images. For ordinary PAL/NTSC videos, the output image is clearer and more delicate, with rich details, full colors, and image quality at the industry leading level.

Support for quick screen tapping function, without the need for computer software to configure screen connection, greatly simplifying on-site debugging steps.

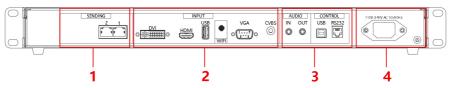
LED-F802/F04 Front Panel:



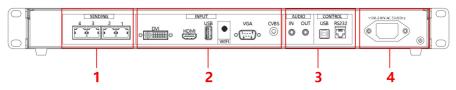
- 1 Power switch
- 2 LCD screen, displaying menu content
- 3 Knob buttons and return buttons
- 4 Input button:DVI、HDMI、VGA、CVBS、USB、EXT

LED-F802/F804 Back Panel:

LED-F802:



LED-F804:



- 1 2 Way /4 Way Gigabit Ethernet port output
- 2 Input interface: DVI、HDMI、USB、WIFI (opt) 、VGA、CVBS
- 3 Audio IN/OUT、Square USB、RS232 interface
- 4 Power interface and ground interface

Technical Specifications

Input Information		
Port	Quantity of	Resolution Specification
DVI	1	VESA standard
HDMI	1	EIA/CEA-861 standard, Compliant HDMI-1.3 standard
VGA	1	VESA standard
CVBS	1	PAL/NTSC
USB	1	1920×1080 30Hz
EXT	1	/
AUDIO IN	1	PAL/NTSC

Output Information		
Port	Quantity Of Resolution Specification	
Gigabit Ethernet Port	2/4	Single port load 0.98 million pixels,
		The LED-F802 machine carries 1.96 million pixels;
		The LED-F804 machine carries 3.92 million pixels;
		A single machine can carry maximum width 3840 pixels
		and maximum height 3840 pixels;
AUDIO OUT	1	Output HDMI, USB flash drive audio

Control Port	
Square USB Port	Used to connect to the host computer
RS232 Port	For central control

Machine Specification		
Input Voltage	100-240V AC~50/60Hz 0.6A	
Operating	0-45℃	
Dimensions	482.6×248.15×43.4 mm	
Net Weight	2.9 KG	
Power Consumption	30W	

Use Menu

Using the product menu system can easily and intuitively set the machine to meet the user's use requirements

The all-in-one video controller uses a full-color LCD display to display the entire user menu. When the user does not operate or the operation times out, the default state will be displayed on the LCD screen. If you use the buttons on the front panel of the machine to set the machine, the LCD screen will display the corresponding menu according to the user's operation to prompt the user to operate better, faster and more intuitively.

The following will combine the button functions and the display of the LCD screen to introduce the menu system of the all-in-one video controller in detail.

Introduction to Default State

After turning on the power of the all-in-one video controller, during the system boot process, the boot interface will be displayed on the LCD screen of the front panel. After the startup is completed, the default state of the current machine will be displayed on the screen, as shown in the figure below:

LED-F804:

MAGNIMAGE			
DVI OutScreen Brightness Port		No Signal 1920×1080 60.00Hz 100%	
1	2	3	4

The information in the above figure is explained as follows:

Symbol	Description	
Input Information	Machine input signal status	
Output Resolution	Machine output resolution	

Screen Brightness	Display screen brightness percentage		
Network Interface	Serial number of network port 1-4. When the network port is connected to a network cable, the network port icon on this interface displays green		

Main Menu

The information in the above figure is explained as follows:

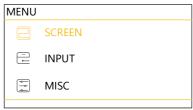
Symbol	Description	
	Press the "Menu/Confirm" button to enter the detailed settings page, or	
	directly perform the operation	
_	After this page, there is another page. Rotate the knob down on the last	
*	item on this page to enter the next page	
There is still a previous page before this page. Rotate the knob up		
•	first item of this page to return to the previous page	

In the main menu, users use the three buttons "Menu/Confirm", "Return", and "Knob" to select and adjust each item. The operation has a fixed mode, as shown in the table below:

Operate	Button	
Open The Main	Duran the IManus (Confirmal houtes in a manus manus state	
Menu	Press the 'Menu/Confirm' button in a non menu state	
Select Each	The knob can be rotated clockwise or counterclockwise, and when it	
Project	encounters the "▼" or "▲" symbol, there will be a page flipping action.	
Adjust	When there is a numerical parameter or option parameter on the right	
Parameters	side of the project, select it by pressing the "Menu/Confirm" button, and	
	turn the knob left or right to change the parameter.	
Enter The Next	When the right end of the project is the symbol " $ ightharpoonup$ ", press the	
Level Menu	"Menu/Confirm" button.	
Execute A	When the project is indicated by the symbol "▶" on the right side, press	
Specific	the "Menu/Confirm" button.	
Function		
Return To The	Press the "return" button	
Previous Menu		

Main menu

In non-menu status, press the "Menu/Confirm" button, and the menu system will enter the main menu status. The LCD screen will display as shown in the figure below:



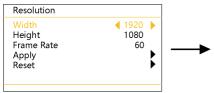
The main menu has 3 submenu items. Rotate the knob left or right to select one of the 3 submenu titles listed above, then press the "Menu/Confirm" button to enter the selected item. Press the "Return" button to go back.

SCREEN





Resolution:





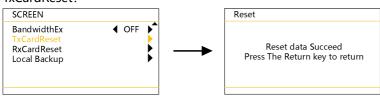
Quick Configuration:



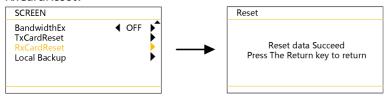


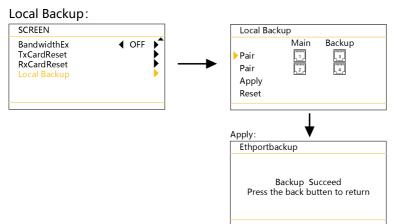


TxCardReset:



RxCardReset:





Screen Brightness

Adjust screen brightness, values range from 0 to 256 (0% to 100%).

	Custom output	resolution, maximum width of 3840 pixels, maximum	
Output Resolution	height of 3840 μ	pixels.	
	Horizontal	The minimum value is 128, screen horizontal width in	
	resolution	pixels.	
	Vertical	The minimum value is 128, screen vertical width in	
	resolution	pixels.	
	Refresh rate	Range 23~60Hz	
	Application	Apply the current set parameters for output	
	Reset	Restore default 1920 × 1080 60Hz output resolution	
	When all the network ports are routed in the same way, light the screen		
Quick Screen	quickly according to the number of cabinets, the connection of the		
Configuratio	network cable,	the arrangement and other information. Through the	
n	built-in quick sp	licing function of the machine, copy and light up multiple	
	sending card screens		
Manual	When the wiring method of each network port is inconsistent with the		
Screen	width and height quantity of a single network loaded box, it is necessary		
Configuratio	to set the corresponding wiring method, box width and height quantity,		
n	and network line offset value for each network port		
Test Patten	Default to off state, test screen 1-10 options		
Cabinet	When the cabin	et label function is on, the led screen will display the serial	
	number of the network port and the serial number of the receiving card of		
Mark	each cabinet, so that the connection diagram can be made intuitively		
December 1991	The default state is off. This function requires the receiving card to		
Bandwidth	support bandwidth expansion in order to be used. After bandwidth		
Extension	expansion, a single network port can carry up to 0.98 million pixels		
Sending			
Card reset	Reset sending card connection screen parameters		
Receiving	Poset reseiving	card parameters	
Card Reset	Reset receiving card parameters		
Local Backup	Single machine can specify any network port for backup.		

INPUT

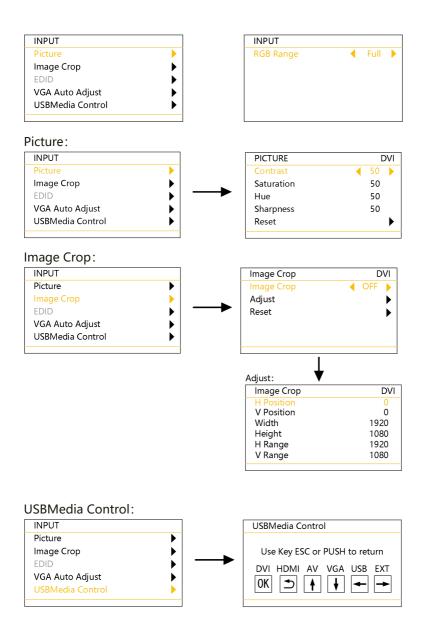


Image Adjust the four options of "Contrast", "Saturation", "Hue", and Setting "Sharpness", with a default parameter of 50 and a range of 0-100

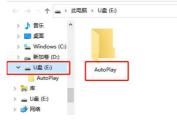
lmage Crop	Horizontal Position	The minimum value is 0, and the maximum value is the difference between "width of horizontal reference" and "horizontal width"	
	Vertical Position	The minimum value is 0, and the maximum value is the difference between "vertical reference height" and "vertical height"	
	Horizontal Width	The maximum value is' width of horizontal reference '	
	Vertical Height	The maximum value is' height of vertical reference '	
	Horizontal Base	Configure the width of input resolution	
	Vertical Base	Configure the height of input resolution	
EDID Setting	Grey option, does not support EDID configuration function		
VGA Automatic Calibration	Automatically correct VGA input image position		
USB Media Control	The DVI button is OK confirm button		
	The HDMI button is the return to previous step button		
	The AV (CVBS) button is the up button		
	The VGA button is the down button		
	The USB button is the left arrow button		
	The EXT button is the right arrow button		
RGB Color Gamut	Input debugging RGB values, divided into "Full" and "Limited"		
Range			

Operating process for playing USB flash drives:

1. The USB drive format must be one of three formats: FAT16, FAT32, and NTFS;



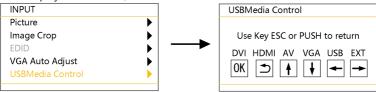
2. Create a new folder in the root directory of the USB drive and name it "AutoPlay";



3. Copy the required playback materials to the "AutoPlay" folder;



- 4. Insert the USB drive into the USB interface on the F802/F804 back panel;
- 5. On the front panel of F802/F804, enter the button to select the USB input button, and then enter the USB media control function in the menu to adjust the playback order of the materials according to the displayed material position on the screen. All materials will continue to be played in rotation;



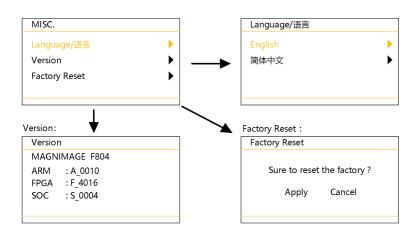
6. The audio of the USB flash drive material can be synchronously output to the power amplifier through Audio Out;

Advert:

USB drive playback support 1080P@30fps video file

Picture Format	bmp、png、jpeg、jpe、jpg
Video Format	avi、mpg、mpeg、vob、dat、m1v、m2v、mp4、mpeg4、m4v、wmv、rm、rv、rmvb、mkv
Audio Format	MPEG-1/2 Layer I、MPEG-1/2 Layer II、MPEG-1/2 Layer III、AAC-LC、WMA8、PCM、FLAC

MISC.



语言/Language		Set the display language of the menu system to English or Simplified	
		Chinese	
Version		Display the machine model, ARM, and FPGA program versions	
Information			
Restore	Factory	Restore the machine to its factory settings, confirm to continue, and	
Setting		prompt "Reset completed, please restart". Power off and restart	

Warranty

Machine Warranty Period

- 24 months from the date of the user's purchase invoice;
- If the user's purchase invoice is lost, the 60th day after the production date of this product is the start date of the warranty for this product.

Non Warranty

- Faults or damages caused by abnormal use reasons such as stains or surface scratches caused by machine immersion, collision, or use;
- Dismantling or modification without our company's consent;
- Failure or damage caused by use in a working environment other than that specified by the product (such as excessive temperature, low temperature, or unstable voltage);
- Faults or damages caused by force majeure (such as fires, earthquakes, etc.) or natural disasters (such as lightning strikes, etc.);
- The product has exceeded the warranty period.