

LED Video Processor LED-550D series

Brief

LED-550D series products are the video processor developed for the large screen display system, adopted the top image processing chips, internal 12 bits processing, with clearer images and richer colors.



Advanced interlaced scanning picture processing technology, to remove video motion tail or flaw,

for the normal PAL/NTSC video, output image will be clearer, for the HD 1080i signal, output image details will be rich, full color and image quality is in the leading level. Advanced image scaling technology, support user-defined output resolution, single unit can support horizontal resolution 3840 at maximum, vertical resolution 1920 at maximum, refresh frequency rate 120Hz, can upgrade the output signal bandwidth utilization greatly; furthermore, also can use the traditional standard output resolution, then scaling the output image by pixel to pixel according to the real size of the LED screen.

Accurate dual picture input image intercepting function, can realize the pixel to pixel display and material fusion. Intellectualized large size LED screen seamless splicing technique, the user just needs to have simple setting,

they could realize that to send card picture splicing, can support 24576×24576 lattice LED screen; Unique synchronized moving technology, ensure high speed motion picture fluently without tail or flaw. Perfect video image input port, including 2×VGA, 1×DP, 1×DVI (can be extended for 2 DVI simultaneous input), 1×HDMI、2×video (PAL/NTSC), 1×SDI (optional),1×USB(optional), support full HD signal input, can be connected with various audio and video equipment. Support seamless switch between different input signal sources and picture in picture function. The whole unit is with pure hardware framework, steady and reliable.

Main characteristics

Customized output resolution

Seamless splicing

Seamless switching, up to 20 switching effect

Fade in/fade out

Dual image

Dual channel image crop

Test overlay

Image freeze

DVI loop

Support USB disk play (MOV、MP4、MKV、3GP、AVI)

Image size, position any adjustme

Save and load mode

Customized DVI input resolution

Various test graphic cards

Accurate brightness control

Hot backup

7 inputs(2 AV,2VGA,1DVI,1HDMI,1DP)

Image enhancement

1 expanded input(vga or dvi or sdi)

Upper computer software control

Support DP input

Operating modes

Two kind of operation mode: upper computer software and button control Upper computer software control: connect computer and video processor through USB, achieve all kinds of operates in the software.

Button control: Control the device manually by button on operation panel.

Host computer control interface





1--The menu display:

The entire menu, in the condition that no user operating or overtime operating, the LCD screen will show the default state, to operate the menu system by using knob and keys, the user can check and set the basic function and state of device intuitively.

3--Function button:

It contains four buttons :PIP, PART, AUTO and MODE. PIP:Open or close the function change the cascading relationship between image 1 and image 2.; PART: Switch part and full; AUTO: Automatically rectify the image display position when the current input source is VGA. MODE: Select the model loading interface

5--TRANSITION area:

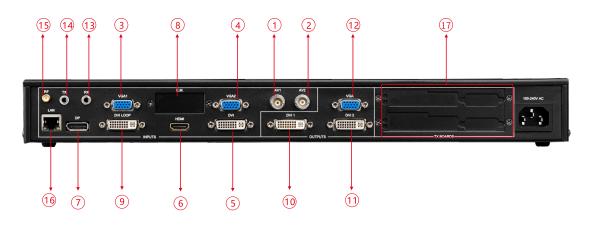
Press "TAKE" or "EFFECT" key, in the default menu system state, can call out image switch interface. In the image switch interface, TAKE key is used to implement image switch function, EFFECT key is used to select image switch effect: short press EFFECT key can make the effect parameters positive change, long press EFFECT, it will make the effect parameters reverse change.

2--Operation Keys:

It is used for menu selection and adjustment, makes up of "OK" key, "Return" key and a knob that can be press down, press the knob in a short time, it has the same function with confirmation key, while press it in long time, it will make the menu system return to default state at once. When u press the return key, the menu system will return to previous menu, until to the default state.

4--INPUTS area:

In the default menu state, short press the area buttons can switch the image 1 input source to the corresponding input; if long press the button, it will switch the image 2 input sources to the corresponding input. In the main menu, when select the input source interface of image 1 and 2, short press the area buttons, you can set the corresponding menu item parameter to the corresponding input port.



1--AV 1 input

2--AV 2 input

3--VGA 1 input

4--VGA 2 input

5--DVI input

6--HDMI input

7--DP input

8--Expanded input

9--DVI loop

10--DVI 1 output

11--DVI 2 output

12--VGA output

13--Cascade input

14--Cascade output

15--RF remote control

16--LAN

17--Sending card plugs

Customized input/output resolution

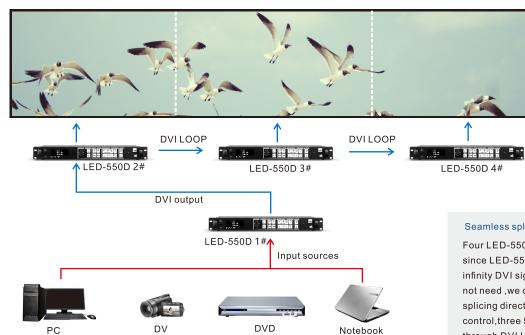


DVI customized resolution 2000×1000

Customized input/output resolution

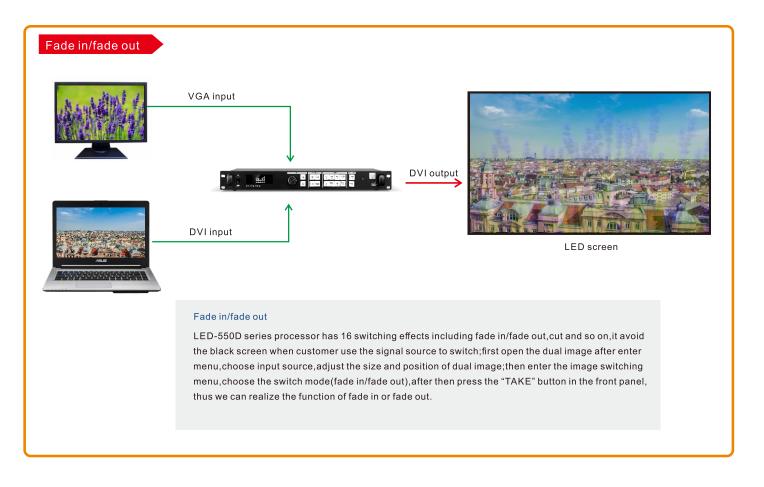
LED-550D series video processor have the function of lock input resolution, DVI customized input resolution 2000*1000, match customized output resolution 2000*1000, thus point to point in the size of 2K*1K will be complete.

Seamless splicing



Seamless splicing

Four LED-550D realize Unequal Mosaic, since LED-550D series processor support infinity DVI signal LOOP, the DVI divider is not need ,we can use Video Processor splicing directly, a 550D is used for main control, three 550D is used for seamless through DVI LOOP, and the processor 2 output the left screen,the proessor3 output the middle screen, and processor4 output the right screen, thus the Unequal Mosaic can be realized .



Technical specifications

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Port	No.	Resolution specifition
AV	2	PAL NTSC
VGA	2+1 (Fixed 2 input,optional expanded 1input)	VESA
DVI	1+1 (Fixed1 input,optional expanded 1 input)	VESA (support 1080i input)
DP	1	EIA/CEA-861, HDMI-1.3
HDMI	1	VESA
SDI*	1	480i、576i、720p、1080i/p(3G SDI)
USB*	1	MOV, MP4, MKV, 3GP, AVI 1080p

Outputs

Port	No.	Resolution specifition	
DVI loop	1	Consistent with DVI input	
VGA	1	1024×768/60Hz/75Hz/85Hz/100Hz/120Hz	
	2	1280×1024/60Hz 1440×900/60Hz 1680×1050/60Hz 1600×1200/60Hz 1600×1200/60Hz – Reduced	
DVI		1920×1080/60Hz/50Hz 2560×816/60Hz 2048×640/60Hz 1920×1200/60Hz 2304×1152/60Hz 2048×1152/60Hz	
		1024×1280/60Hz 1536×1536/60Hz Customized output resolution(bandwidth optimize): Horizontal resolution:max.3840 Vertical resolution:max.1920	
SDI loop*	1	480i、576i、720p、1080i/p (3G SDI)	

Console specification

Power supply	100-240VAC 50/60Hz	
Power consumption	20W	
Operation temperature	0 ~ 45°C	
Product dimension (L x W x H)	483.0×288.0×54.5mm	
Packing dimension (LxWxH)	555.0×395.0×125.0mm	
N.W.	2.6kg	
G.W.	4.1kg	

LED-550D series product mode

Item number	Name	Description
LED-550D	Standard configuration	Standard configuration
LED-550DD	Expanding DVI input module	DVI input
LED-550DS	Expanding SDI input module	SDI input
LED-550DV	Expanding VGA input module	VGA input
LED-550DM	Expanding USB input module	USB port input
LED-550DR	Expanding RS232 module	External control port RS232



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