LED-750H
Video Processor

LED-750H, a superior approach to better visual performance for LED walls. It is a 4K x 1K/60Hz capable video processor. With EDID and customize output managment, it delievers high quality pixel-to pixel display via its user-friendly controls. It is an ideal choice for multi-media hall, multi-purpose room, theater, studio and showroom.

Supporting all kinds of input ports, it outperforms competitor in terms of loading capacity and broadband utilzing rate.(The up-processes width is 7680, and refresh rate reaches up to 120Hz.) Also, 16 selective built-in resolutions allow user to scale and match the real size of LED walls. Input ports include DVI*2, HDMI*2, DP*1(4K). For extended input, user can choose 2 ports from VGA/ DVI/ SDI(SDI*1) or 4K input DP1.1 / HDMI 1.4.It accepts network linking, USB linking or RS232 linking for different control demands.

◢ Features

- 2 screens splicing in 1 processor:4 DVI output ports are divided into 2 groups for horizontal splicing, vertical splicing, same size splicing, and different size splicing. A single unit up-loads 4,600,000 pixels and accepts splicing for 2 screens.
- 2 windows output:on non-splicing mode, each output support 4 layers with any size or position.
- Multiple cascade:machines can be cascaded to realize ultra wide display.
- Built-in input matrix for seamless switching between 7 inputs.
- Logo saving.
- Image freezing.
- Preset saving & loading.
- Accurate control for brightness & high grey level.
- Serial port for future developing.

- More input ports:DVIx2, HDMIx2, DP 1.1 x1, 2 extended 2K Inputs(VGA, DVI or SDI, with loop function), or 1 extended 1.1 DP, HDMI 1.4.
- EDID management:customize input resolution for DP, DVI, HDMI and VGA.
- Rotary output:splicing after rotary output.
- Time task manager.
- Preview switching.
- Customize output resolution.
- Image crop.
- Internal graphic card for testing.
- Computer host control.
- USB upgrade.

◪ Processor introduction

1 Menu display

The screen tells the current operating details. On default mode, press "OK" or rotate the knob to enter the main menu, where 15 options are shown on 4 pages.

2 Operating Keys

Selecting or setting operations will be done with "OK", ↰ and the knob. "OK" is for entering the menu or confirming any setting. ↰ is for backward. The knob is for selecting or setting.

3 Layer Keys

Long press will turn on or turn off the current window. Fast press will choose the selecting window. Also, fast any window and any input at the same time, window switching can be done.

4 Input Selecting & Number Keys

Together with window keys, window switching can be done by these keys. Also, they can be used as number keys when setting any resolution or other value.

5 Shortcut Keys

"SIZE" is for setting the size of an image. "LOGO" is for turning on or off the logo. "BRIGHT LEVEL" is for setting the brightness. "FREEZE" is for freezing an image. "TEMPLATE" is for entering fixed templates. "LOAD" is for entering user's presets.

6 TAKE function key

On switching mode, press "TAKE" to switch from preview to program.
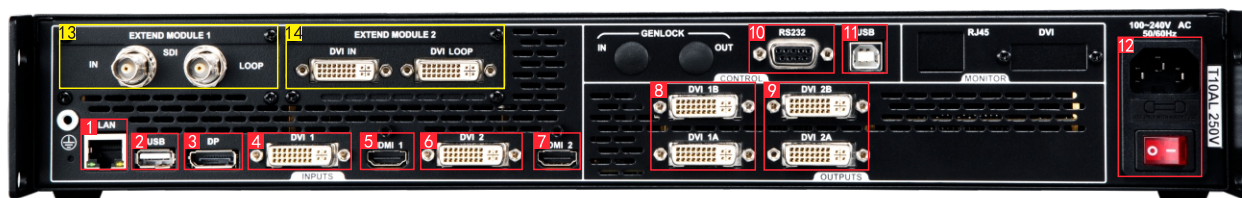
1 Network host control port	2 USB upgrade port	3 DP input	4 DVI input 1
5 HDMI input 1	6 DVI input 2	7 HDMI input 2	8 DVI output 1
9 DVI output 2	10 RS232 control port	11 USB control port	12 Power switch
13 Extend module 1	14 Extend module 2		

*Ports in the yellow box are not included in a standard unit.

Main characteristics and Application

▢ 2 Screens Splicing in 1 Processor

Customize input/output resolution
With EDID management, LED-750H is able to customize the input resolution of DVI, HDMI and DP. For the output part, there are 18 available fixed resolutions and customize output resolution function. In order to adjust pixel-to-pixel display from different size LED walls, accurate resolution setting can also be done within this product.

LED 1   LED 2

Signal input

Signal input source（DP、DVI、HDMI、VGA、SDI）

▢ Single Machine Supports 2 Screens Splicing

For horizontal/vertical, equal/unequal splicing.

LED 2

LED 1

Signal input

Signal input source（DP、DVI、HDMI、VGA、SDI）

Main characteristics and Application

2 independent outputs

LED-750H supports maximum 7 inputs. It can be used as matrix of 7 inputs and 2 outputs. It can also control 2 different screen with independent content. Any input can be quickly switched to any output without the black or signal break-off.

Output 1   Output 2

Multiple cascade

Cooperates with video server, graphic card split the signal and outputs to multiple LED-750Hs, and cascade to achieve ultra wide splicing.

Video server(Multiple card output)

Main characteristics and Application

4 Layers Output

In the non-splicing mode, each port is able to display 4 independent layers. Input signal, size and position of them can be setup separately.

Signal input source（DP、DVI、HDMI、VGA、SDI)

Preview Switching

When preview switch is on, DVI 1 output will work as the preview, and DVI 2 work as the program output. Save the preview to the user-defined preset(for switching convenience), and then press the TAKE key to realize seamless switching. The fade duration can be set. The picture shows how 3 layers and 1 layer switch with fade in and fade out.

Preview monitor

Main characteristics and Application

⬜ 4K input

DP or extended HDMI input, supports 3840x1080/60Hz and customize resolution to realize pixel to pixel display within 4k

3840

1080

DVI 1   DVI 2

4K input signal

⬧ Technical Specification

Input Indication

Port	Quantity	Resolution
DVI	2	1920×1080/60Hz and EDID
DP	1	Displayport 1.1,3840×1080/60Hz、3840×2160/30Hz and EDID
HDMI	2	1920×1080/60Hz and EDID

Extend Input Indication

Port	Quantity	Resolution
DVI	DVI×1	1920×1080/60Hz and EDID
VGA	VGA×1	VESA standard
SDI	SDI×1	480i/60Hz 576i/50Hz 720p/60Hz 1080i/60Hz/50Hz 1080p/60Hz/50Hz(3G SDI)
DP 1.1	DP×1、DVI×1	3840×1080/60Hz、3840×2160/30Hz and EDID
HDMI 1.4	HDMI×1、DVI×1	3840×1080/60Hz、3840×2160/30Hz and EDID

You can extend 2 x 2K inputs (VGA, DVI, SDI) or 1 x 4K input (DP1.1, HDMI1.4)

Output Indication

Port	Quantity	Resolution (single DVI output)
DVI	2✖2	1024×768/60Hz 1280×1024/60Hz 1024×768/120Hz 1280×720/60Hz 1440×900/60Hz 1600×1200/60Hz 1600×1200/60Hz- Reduced 1680×1050/60Hz 1920×1080/60Hz 1920×1080/50Hz 2176×1168/60Hz 1920×1200/60Hz 1936×1280/60Hz 2048×1152/60Hz 1024×1280/60Hz 1536×1536/60Hz 1280×720/59.94Hz 1920×1080/59.94Hz The customize output resolution is 3966 for maximum width or 3541 for maximum height.

Product Accessories

Power cable	×1
DVI signal cable	×1
Square mouth USB cable	×1
DP-DP cable	×1
HDMI cable	×1
VGA cable	×1
Certificate of qualification	×1
User manual	×1

Console Specification

Power supply	100~240V AC 50/60Hz
Power consumption	55w
Product dimension	482.6×452×66.75mm
Net Weight	5.8Kg