

LED-W4000 series is an 8K×2K video processor which integrates multiple functions such as mosaic, switch and multi-window display. This processor integrates various professional input ports, single input support maximum 4K×2K/60Hz or 8K×1K/60Hz. Because of the high-quality images, pixel to pixel display of giant resolution and flexible operation ways, it's widely used in exhibitions, business conferences, stage performances, theaters and TV stations etc.

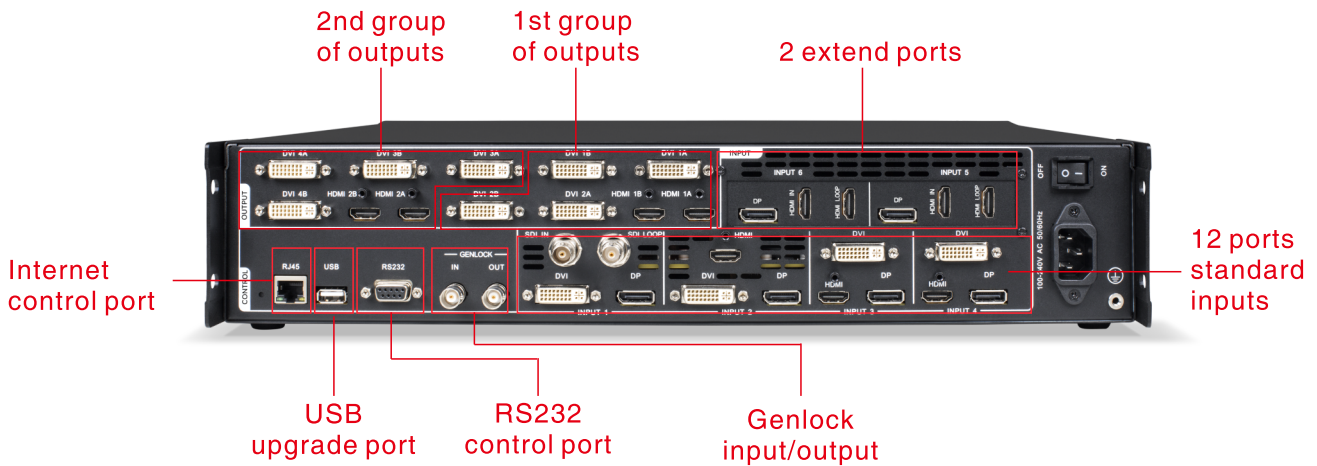
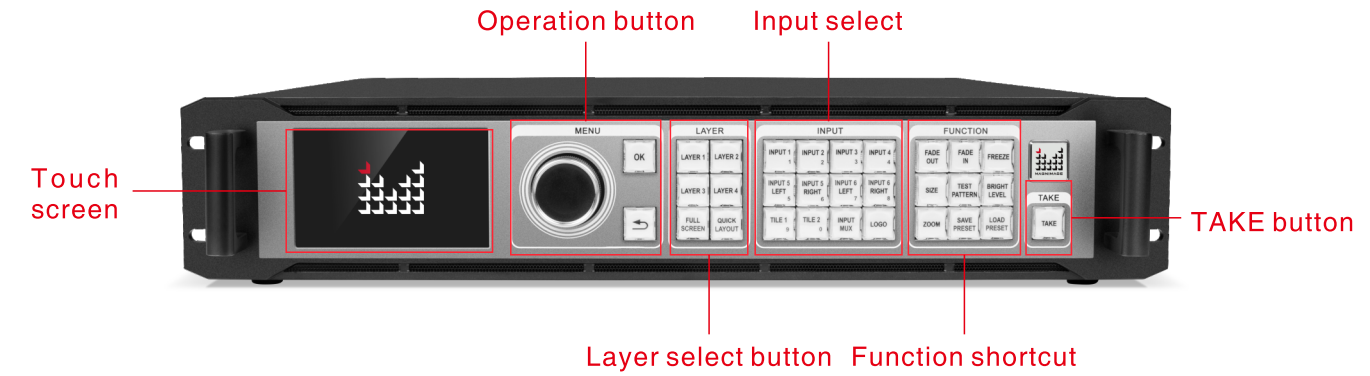
The load capability of LED-W4000 series is several times of normal video processor, support EDID management and customized output resolution, single processor output can be maximum 8192 pixel width, refresh rate up to 120Hz, greatly improved the utilization of load capability. It also provides various regular output resolution options for scaling according to real size of LED screen.

Perfect video input ports, including SDI×1, DVI×4, HDMI×3, DP×4, and it also allows you to extend 2 more DP1.2/HDMI2.0 inputs. It supports Internet, USB and RS232 control to link with various video equipment.

## Features

- 8K×2K output mosaic:
  - 2 groups of output, each group has 4 DVI and 1 HDMI
- Different work modes:
  - Mosaic mode: 8K×2K input/output pixel to pixel display
  - Switcher mode: 4K Preview, seamless switching
  - Backup mode: input signal hot backup or manually backup, seamless switching of one single input or Tile inputs
- Support HDR
- 10 bits processing
- Support HDCP
- Built-in test pattern
- Software control
- Image crop
- Layer zoom
- Time task management
- More inputs:
  - DVI×4, HDMI×3, DP×4, SDI×1, and 2 extended 4K×2K/60Hz inputs
- EDID management
- Customized output resolution
- 4 layers
- Support input Tile function
- Support save and load preset
- LOGO function
- Image freeze
- Layer rotation
- Brightness level adjustment, low brightness and high gray level
- Support machine upgrade by USB drive
- Support touch screen control

## Processor introduction

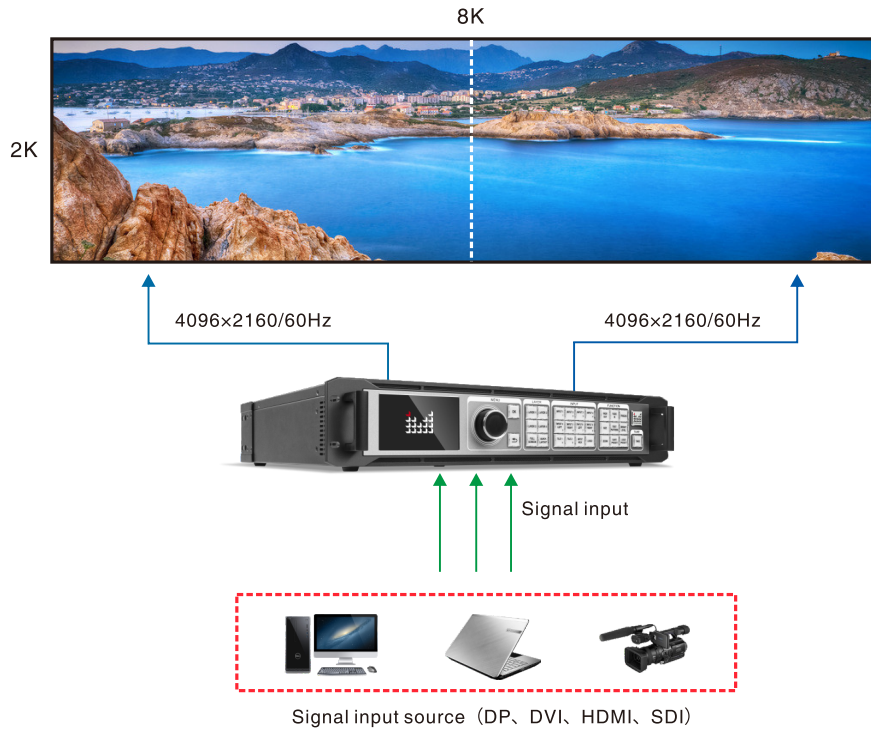


- Standard input: 12 ports, divided into 4 groups, each group includes 3 inputs, using one out of three, total inputs are SDI×1, HDMI×3, DVI×4, DP×4.  
Resolution specification: SDI (3G SDI: 1080P/I and below) , HDMI, DVI and DP, all support EDID within 4K×1K/60Hz.
- Extend inputs: support 2 groups of 4K module at the same time, each module includes DP1.2×1, HDMI 2.0×1 (include 1 loop). In one module, the input ports can use one out of two.
- Output: 12 ports divided into 2 groups, each group includes 4×DVI (A B copy for backup, 1A=1B, 2A=2B ) and 2×HDMI(A B copy for backup); either DVI or HDMI ports are available for use.

## ▮ Main characteristics and Application

### 📺 8K x 2K Input/Output Pixel To Pixel

Under HDMI output mode, single output support 4K x 2K@60Hz resolution, can customize the resolution in this range. Total 2 x HDMI output, single machine support 8K x 2K@60Hz.



### 📺 Switcher Function Introduction

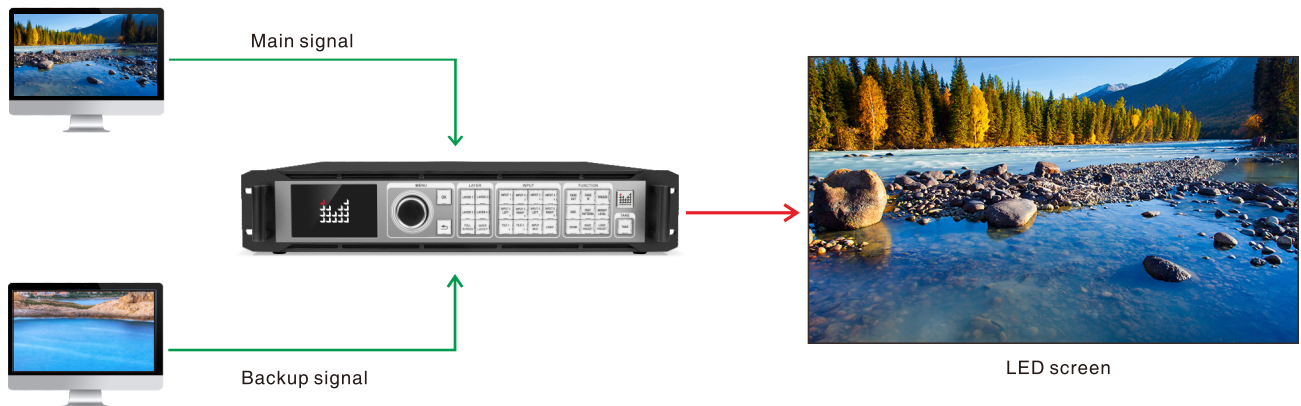
HDMI 1 is program output; HDMI 2 is preview, support fade switch among 3 images and 3 images. Under switcher mode, it only supports HDMI output.



## ▮ Main characteristics and Application

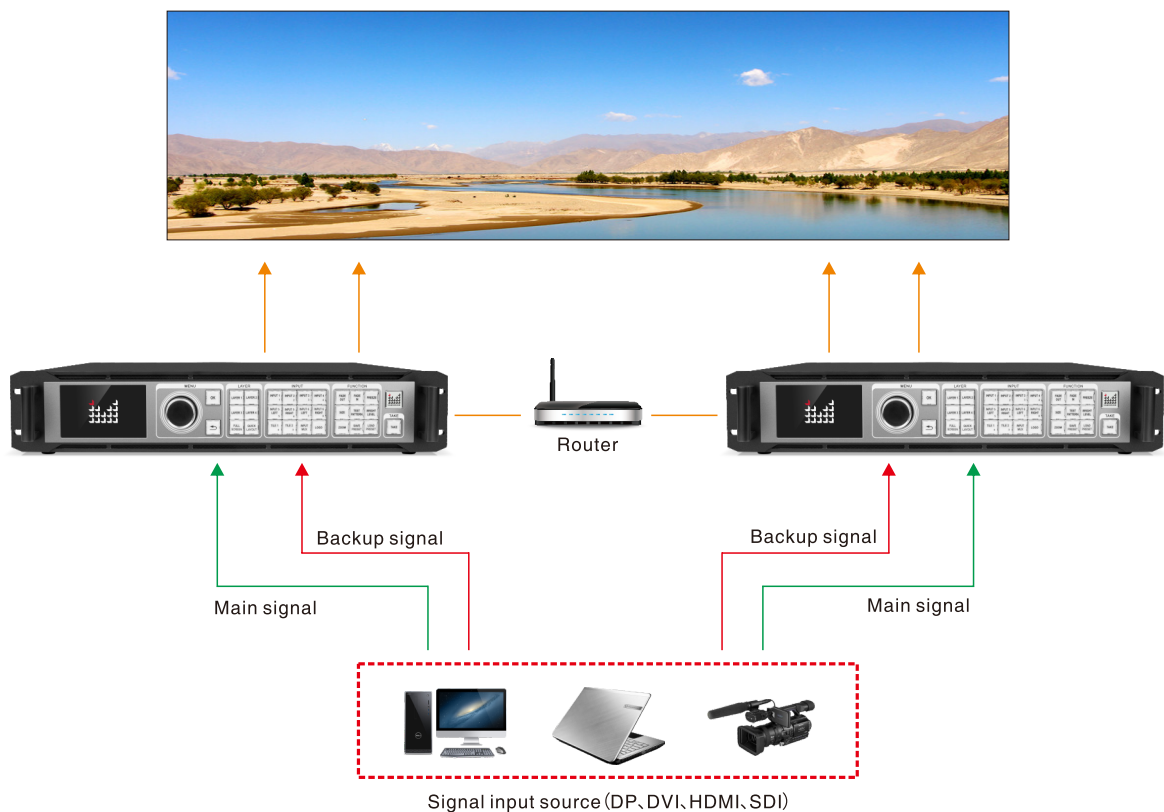
### ▮ Backup Function

Support input backup function; automatically and manually switch between main signal and backup signal.



### ▮ Multi-machine Cascade Switch

Do Synchronous switch operation of multiple LED-W4000 which is in same local area network.



## ▮ Main characteristics and Application

### 🖼️ HDR Function

Expand the brightness range of display, show more details of light and dark parts.  
Bring richer color and more vivid and nature detail for the picture, make the picture more close to what human eyes can see.



### 🖼️ Input Tile Function

Make multiple input sources (same resolution, maximum 4 ports) combine to one integral whole in input side of processor, make it as one combination source.

Simplify the setting steps and optimized operation, no need to consider the equal/unequal situation.

Tile function is supported under mosaic, switch and backup mode.

Support 2 groups of Tile setting, can quickly adjust the combination source through Tile button of front panel.



## Technical parameters

### Input Indication

Port	Quantity	Resolution
DVI	4	3840×1080/60Hz and EDID management
DP	4	3840×1080/60Hz, 3840×2160/30Hz EDID management
HDMI	3	3840×1080/60Hz EDID management
SDI	1	480i/60Hz 576i/50Hz 720p/60Hz 1080i/50Hz/60Hz 1080p/50Hz/60Hz(3G SDI)

### Extend Input Indication

Port	Quantity	Resolution
DP1.2	2	4096×2160/60Hz、7680×1080/60Hz EDID management
HDMI2.0	2	3840×2160/60Hz EDID management

Each group extendable 1xDP, 1xHDMI, 1xHDMI loop, maximum 2 groups

### Output Indication

Port	Quantity	Resolution (single output)																		
DVI	4×2	<table border="0"> <tr> <td>1024×768/60Hz</td> <td>1280×1024/60Hz</td> <td>1024×768/120Hz</td> </tr> <tr> <td>1280×720/59.94Hz</td> <td>1280×720/60Hz</td> <td>2048×1920/60Hz</td> </tr> <tr> <td>1600×1200/60Hz</td> <td>1600×1200/60Hz-reduced</td> <td>1680×1050/60Hz</td> </tr> <tr> <td>1920×1080/59.94Hz</td> <td>1920×1080/60Hz</td> <td>1920×1080/50Hz</td> </tr> <tr> <td>1920×1200/60Hz</td> <td>1920×1280/60Hz</td> <td>2048×1152/60Hz</td> </tr> <tr> <td>1024×1280/60Hz</td> <td>1536×1536/60Hz and EDID</td> <td></td> </tr> </table>	1024×768/60Hz	1280×1024/60Hz	1024×768/120Hz	1280×720/59.94Hz	1280×720/60Hz	2048×1920/60Hz	1600×1200/60Hz	1600×1200/60Hz-reduced	1680×1050/60Hz	1920×1080/59.94Hz	1920×1080/60Hz	1920×1080/50Hz	1920×1200/60Hz	1920×1280/60Hz	2048×1152/60Hz	1024×1280/60Hz	1536×1536/60Hz and EDID	
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HDMI	2×1	<table border="0"> <tr> <td>1920×1080/60Hz</td> <td>1920×1080/120Hz</td> <td>3840×1080/60Hz</td> </tr> <tr> <td>3840×2160/30Hz</td> <td>3840×2160/60Hz</td> <td>4096×1280/60Hz</td> </tr> <tr> <td>4096×1280/30Hz</td> <td>4096×2160/60Hz</td> <td>2560×1080/120Hz</td> </tr> <tr> <td>2560×1440/90Hz and EDID</td> <td></td> <td></td> </tr> </table>	1920×1080/60Hz	1920×1080/120Hz	3840×1080/60Hz	3840×2160/30Hz	3840×2160/60Hz	4096×1280/60Hz	4096×1280/30Hz	4096×2160/60Hz	2560×1080/120Hz	2560×1440/90Hz and EDID								
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Genlock	IN×1、OUT×1																			

### Specification

Input power supply	100~240V AC 50/60Hz 0.6A
Power consumption	90W
Operating temperature	0~45°C
Overall dimension (L×W×H)	482.6×446.3×92.5mm
Net Weight	6.7kg



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