

LED-W4000 series

Led Video Processor



Unitech
digitalmedia

LED-W4000 series Processor

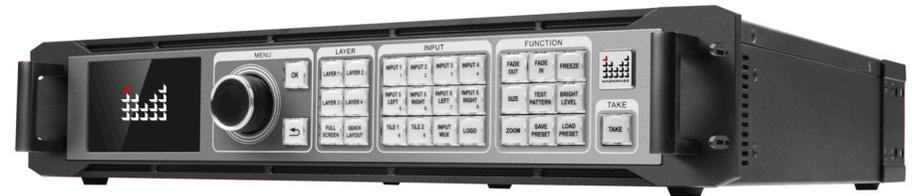
LED-W4000 series is an 8Kx2K video processor which integrates multiple functions such as mosaic, switch and multi-window display. This processor integrates various professional input ports, single input support maximum 4Kx2K/60Hz or 8Kx1 K/60Hz. Because of the high-quality images, pixel to pixel display 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 SDIx1, DVIx4, HDMIx3, DPx4, 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

- 8Kx2K output mosaic: 2 groups of output, each group has 4 DVI and 1 HDMI
- Different work modes:
Mosaic mode: 8Kx2K 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
- EDID management
- Customized output resolution
- Time task management
- More inputs: DVIx4, HDMIx3, DPx4, SDIx1, and 2 extended 4Kx2K/60Hz inputs
- 4 layers
- Support input Tile function
- Support save and load preset
- Brightness level adjustment, low brightness and high gray level
- Support machine upgrade by USB drive
- Support touch screen control
- LOGO function
- Image freeze
- Layer rotation



INPUT INDICATION

PORTS	QUANTITY	RESOLUTION
DVI	4	3840X 1080/60Hz and EDID management
DP	4	3840x1080/60Hz,3840x2160/30Hz EDID management
HDMI	3	3840X 1080/60Hz and EDID management
SDI	1	480i/60Hz 576i/50Hz 720p/60Hz 1080i/50Hz/60Hz 1080p/50Hz/60Hz(3G SDI)

EXTEND INPUT INDICATION

PORTS	QUANTITY	RESOLUTION
DP1.2	2	4096X2160/60Hz, 7680X1080/60Hz EDID management
HDMI2.0	2	3840x2160/60Hz EDID management

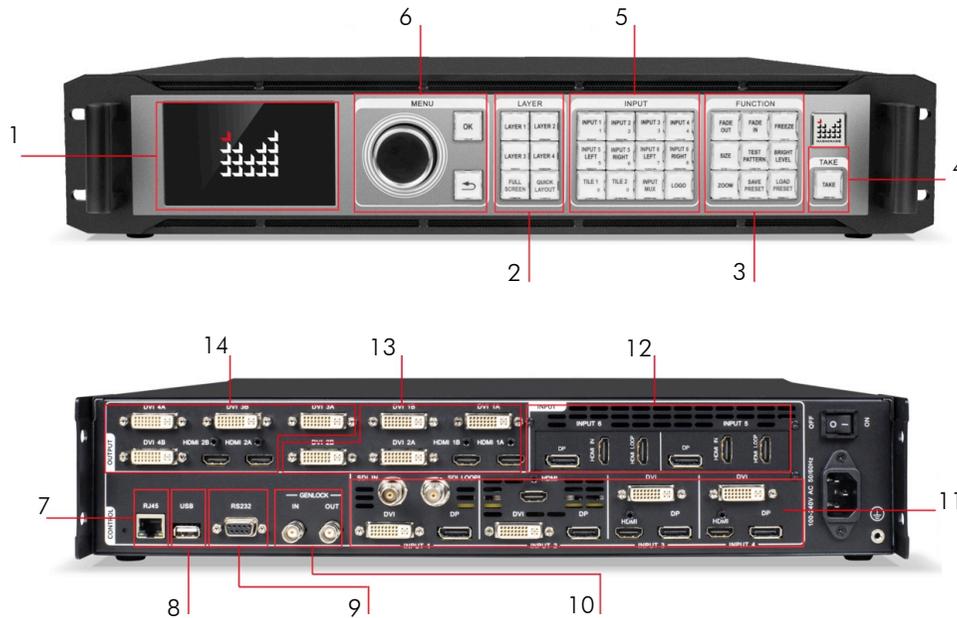
OUTPUT INDICATION

PORTS	QUANTITY	RESOLUTION (for each DVI output)
DVI	4x2	1024x768/60Hz 1280x720/59.94Hz 1600x1200/60Hz 1920x1080/59.94Hz 1920x1200/60Hz 1024x1280/60Hz 1280x1024/60Hz 1280x720/60Hz 1600x1200/60Hz-reduced 1920x1080/60Hz 1920x1280/60Hz 1536x1536/60Hz and EDID 1024x768/120Hz 2048x1920/60Hz 1680x1050/60Hz 1920x1080/50Hz 2048x1152/60Hz
HDMI	2x1	1920x1080/60Hz 3840x2160/30Hz 4096x1280/30Hz 2560x1440/90Hz and EDID 1920x1080/120Hz 3840x2160/60Hz 4096x2160/60Hz 3840x1080/60Hz 4096x1280/60Hz 2560x1080/120Hz
GENLOCK	1Nx1, OUTx1	

MACHINE SPECIFICATION

Power supply	100-240 AC 50/60Hz
Power consumption	90W
Operation temperature	0-45°C
Size	482.6x446.3x92.5mm
Weight	6.7Kg

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INTERFACE DESCRIPTION FRONT PANEL

1	Touch screen.
2	Layer select button
3	Function shortcut
4	TAKE button
5	Input select
6	Operation button
7	Internet control port
8	USB upgrade port
9	RS232 control port
10	Genlock input/output
11	12 ports standard inputs
12	2 extend ports
13	1st group of outputs
14	2nd group of outputs

- Standard input: 12 ports, divided into 4 groups, each group includes 3 inputs, using one out of three, total inputs are SDIx1, HDMlX3, DVIx4, DPx4. Resolution specification: SDI (3G SDI: 1080P/1 and below), HDMI, DVI and DP, all support! EDID within 4Kx1 K/60Hz.
- Extend inputs: support! 2 groups of 4K module at the same time, each module includes DP1 .2x1, HDMI 2.0x1 (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 4xDVI (AB copy for backup, 1A=1B, 2A=2B) and 2xHDMI(A B copy for backup); either DVI or HDMI ports are available for use.

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ORDER CODE: UNIPROW4000

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 BK x 2K@60Hz.

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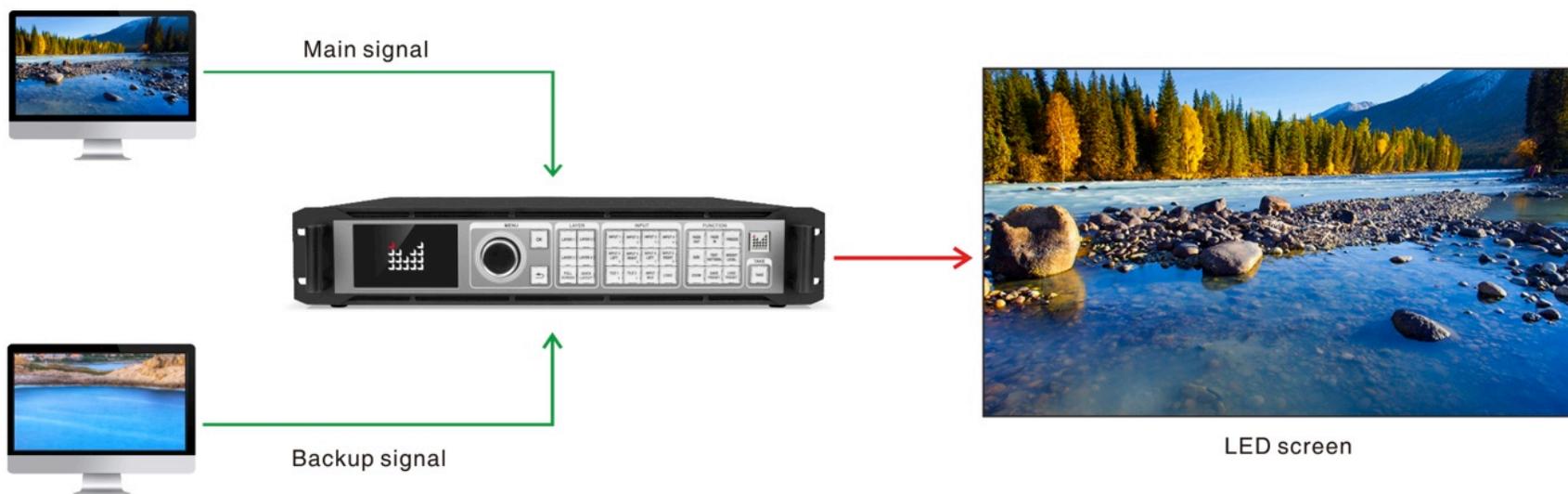
SWITCHER FUNCTION INTRODUCTION



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.

BACKUP FUNCTION

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

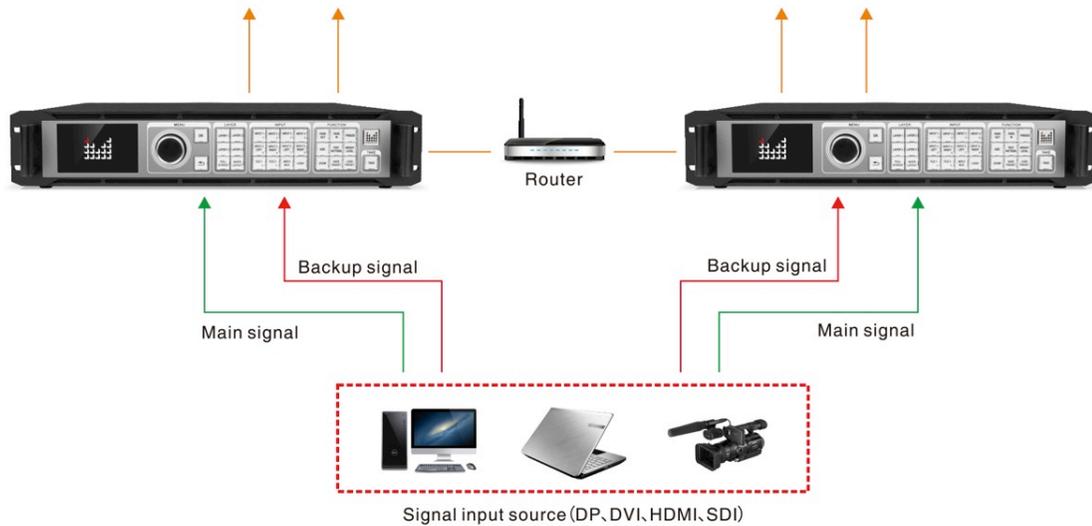


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MULTI-MACHINE CASCADE SWITCH



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



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.

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INPUT TILE FUNCTION

DP 1
3840×1080



DP 2
3840×1080



Tile
7680×1080

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.