



LED-FW16 is an all-in-one video controller developed by Magnimage for overseas market. It is equipped with a complete video input interface, including 1xHDMI2.0, 1xDP1.2, 2xDVI, 1x3G SDI, Audiox1, expandable with 12G SDI x 1, DVI x 2 or HDMI2.0+ DP1.2, and its outputs support 16 Gigabit network ports, 2 10G optical fiber inputs/outputs (for network backup between two devices), 1 HDMI Loop, and 1 HDMI monitor. The widest horizontal resolution is up to 16,380 and the highest vertical resolution is up to 7,680, with a single grid carrying 0.98M pixels and 15.68M (60Hz) for the whole machine.

LED-FW16 supports the function of quick light-up screen without computer software connection, greatly simplifying the setting step.

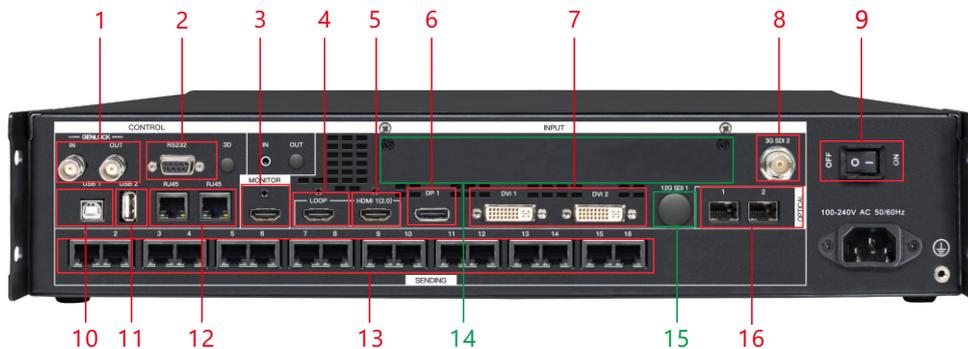
▮ Features

- ▮ Quick light-up screen, no need computer software connection.
- ▮ Support 16 Gigabit network output ports and customized output resolution.
- ▮ Input EDID management.
- ▮ Support single 4K*2K/60Hz (HDMI2.0) or 8K*1K(DP1.2) input.
- ▮ Four layers display, and full-screen roaming.
- ▮ Support sequence marking of receiver card.
- ▮ Support preset save and load.
- ▮ Support multi-input mosaic within single controller and multi-cascade mosaic.
- ▮ Support network backup within single controller and between several controllers.
- ▮ Support input backup within single controller.
- ▮ Seamless switching between input signals and presets.
- ▮ Support scrolling caption.
- ▮ Support Genlock external synchronization.
- ▮ Support 10 bit input.
- ▮ Support local USB flash drive for reading and loading configuration files.
- ▮ Built-in loop function for RJ45 control port, no need local area network, easy to control for cascade operation.
- ▮ Customized Input & Output resolution.
- ▮ Zoom and image crop.
- ▮ Support monitor output.
- ▮ High-end screen connection.
- ▮ Free cable connection.
- ▮ Smart Sequencing.
- ▮ For RS232 control.
- ▮ Time Task, automatic brightness adjustment.
- ▮ Support connection with C-Link series receiving card.
- ▮ Support HDR.

Panel Introduction



- | | |
|--|--|
| 1 LCD screen to show menu contents | 2 Knob, OK button, Return button |
| 3 Layer selection button | 4 Input Source Selection Button to view input information |
| 5 EDID key, zoom key, Layer zoom key | 6 LED screen configuration key, test card key, image freeze key |
| 7 Smart Sequence Key, Layer Size Key, Save Preset Key | 8 Brightness Adjustment Key, Black Screen Key, Load Preset Key |
| 9 Full Screen Button, Layer Button | 10 Keyboard Lock Button |

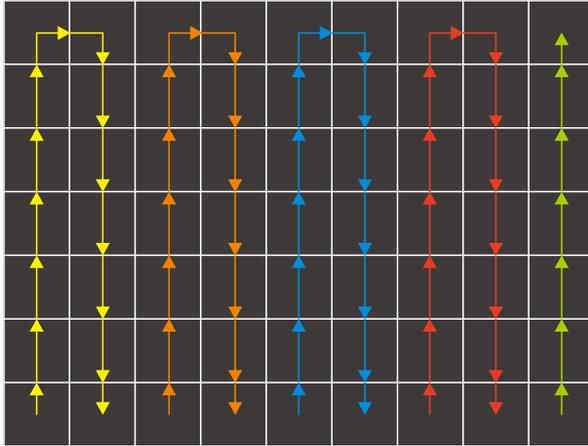


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|--|---|---|-----------------------|
| 1 Genlock input/output | 2 RS232 control port | 3 HDMI monitor output | 4 HDMI2.0 LOOP |
| 5 HDMI2.0 input | 6 DP1.2 input | 7 2 DVI input | 8 3G SDI input |
| 9 Power on/off | 10 USB control port | 11 USB drive file import/export, USB drive upgrade | |
| 12 2 Control network port | 13 16 Gigabit network output port | | |
| 14 DVIx2 or HDMI2.0+DP1.2 (Need to be expanded) | 15 12G SDI input (Need to be expanded) | | |
| 16 2 10G optical fiber ports | | | |

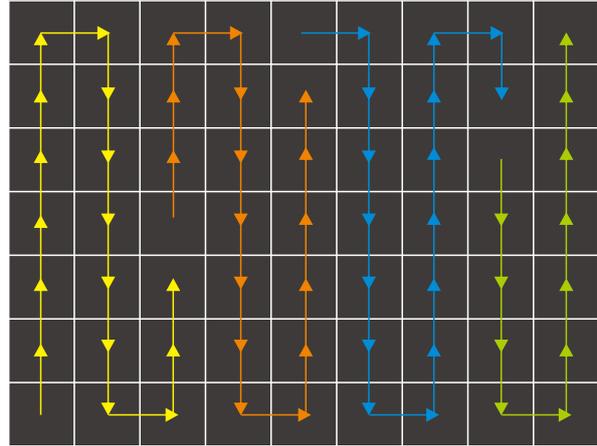
▮ Main Features and Characteristics

▮ Free cable connection

Each grid can be used according to the actual number of grid points in the box, and neither folding nor leaving the grid empty takes up the grid area, which is no longer limited to a single grid area that must be a rectangle, thus effectively increasing the utilization rate of the grid port without wasting the performance of the equipment.



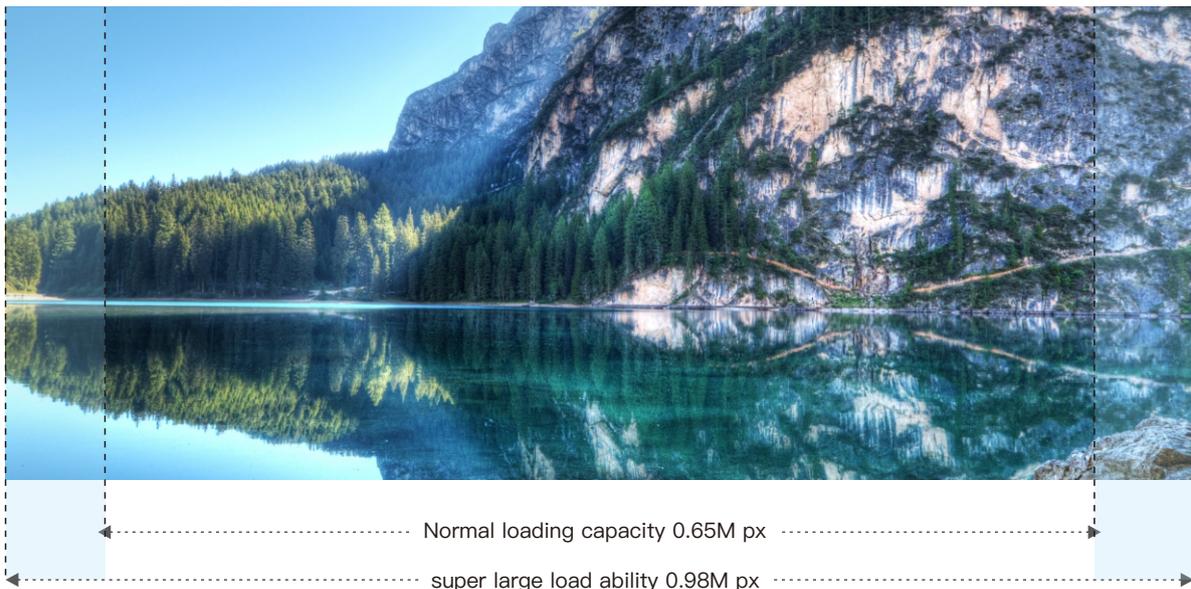
Standard cable connection



Free cable connection

▮ super large load ability

Breaking through the tradition with unique super large loading function, the loading capability of single port can reach 0.98M pixels(60Hz).



Normal loading capacity 0.65M px

super large load ability 0.98M px

▮ Main Features and Characteristics

🖥️ HDR 10/HLG

Wider color gamut space, higher color depth, wider brightness range, HDR technology makes the color more vivid and the color close to reality.

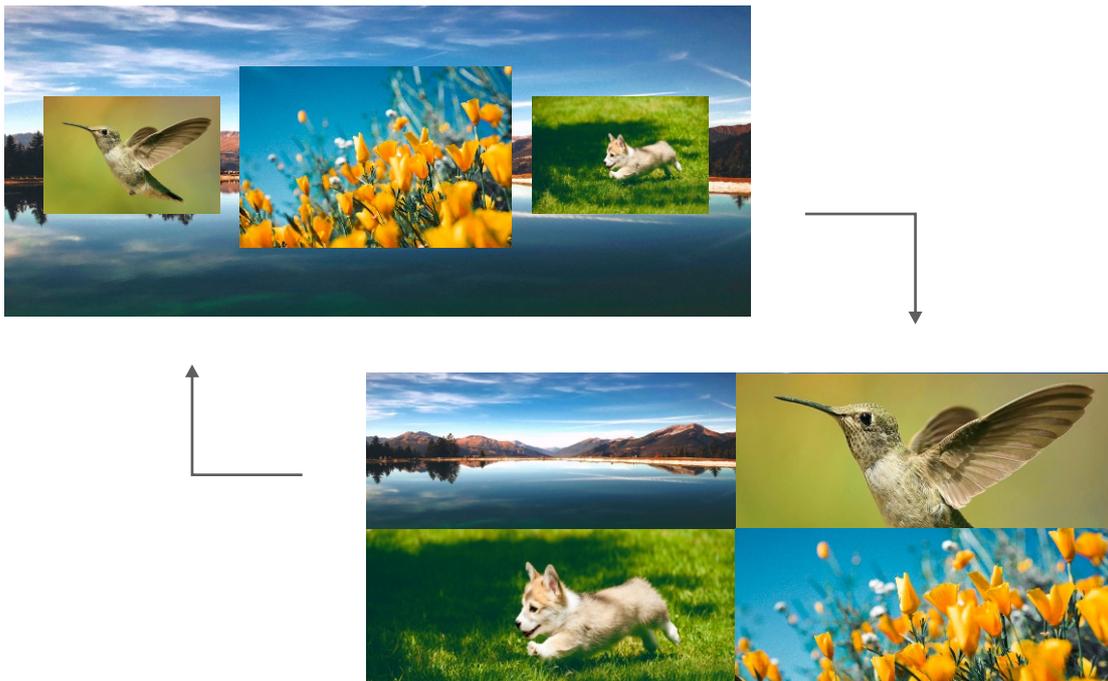


HDR Closed

HDR Open

🖥️ 4 layers seamless switching

4 independent layers, freely adjustable; seamless switching between input sources and presets (4 layers to 4 layers); small projects handled at once, only Layer 3 and Layer 4 deinterlacing.



▮ Main Features and Characteristics

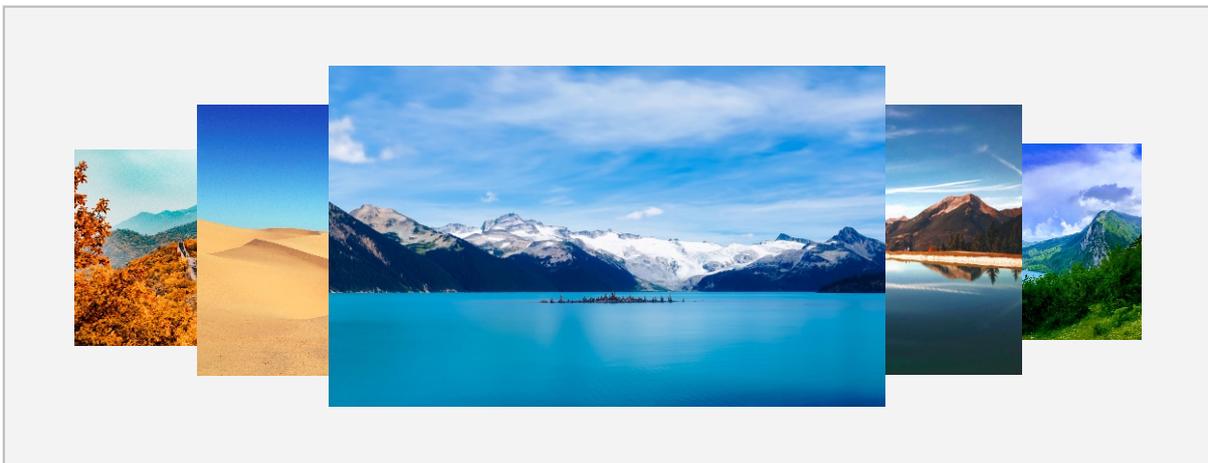
📺 Monitoring the Output

Connecting the external 2K display monitors that monitor the output of the entire machine, this machine help make it easy for the operator to monitor the LED screen display in situations where the LED screen cannot be viewed directly, so that the operator can control the scene without worrying about the content.



📅 Time Task

Supports automatic switching of presets at the set point in time.



▮ Main Features and Characteristics

📺 automatic brightness adjustment

Supports automatic brightness adjustment at the set point in time.



➡
automatic
brightness
adjustment



📺 Scrolling caption

Edit text content, size, color, scrolling speed and background color through software.



Technical Parameters

Model	
Model	Specification
LED-FW16	Standard model
LED-FW16D	Standard model + 2 expanded DVI
LED-FW16H	Standard model + 1 expanded HDMI2.0+1 DP1.2 input
LED-FW16S	Standard model + 1 expanded 12G SDI input
LED-FW16DS	Standard model + 2 expanded DVI+1 12G SDI input
LED-FW16HS	Standard model + 1 expanded HDMI2.0+1 DP 1.2 input+1 12G SDI input

Input specification		
Port	Quantity	Resolution
HDMI2.0	1	3840X2160/60Hz and customized
DVI	2	3840X1080/60Hz and customized
3G SDI	1	720P、1080i/60Hz、1080P/60Hz 3G SDI standard
DP1.2	1	7680X1080/60Hz、3840X2160/60Hz and customized
Genlock (In)	1	
AUDIO IN	1	

Extended input pointer		
Port	Quantity	Resolution
12G SDI	1	12G SDI standard
HDMI2.0+DP1.2	1	7680X1080/60Hz、3840X2160/60Hz and customized
DVI	2	3840X1080/60Hz and customized

Output specification		
Type	Quantity	Resolution
Ethernet port (connect receiving card)	16	0.98M for the single port, max 15.68M loading for the whole machine max horizontal 16380 px, max vertical 7680 px
HDMI LOOP	1	HDMI Loop, the same with HDMI2.0
HDMI Monitor	1	Monitor the output of the whole machine
OPT	2	For optical port backup or copied signal input
Genlock (Out)	1	

Control port		
Type	Quantity	Resolution
Square opening USB	1	For pc software control
RJ45	2	For pc software control or Multiple unit cascade control
RS232	1	For RS232 control

Unit Specification	
Input Power Voltage	100-240V AC 50/60HZ
Power Consumption	80W
Dimension (L×W×H)	482.6X421.3X88mm
Weight	7.6KG



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