

# LED-FW10-C

## LED Video Control Server



LED-FW10-C is a LED video control server developed by Magnimage for overseas rental market; It is equipped with a complete video input interface, including 1×HDMI2.0, 1×DVI1 (support 4K×1K@60Hz), 1×DP1.1 & 1×DVI2 (support 4K×1K@60Hz, and alternative one of two to use each time), 1×3G SDI, 2×10G optical; Output supports 10 Gigabit Ethernet ports, 1×10G optical, 1×HDMI2.0 loop-out; The maximum horizontal resolution of a single machine can reach up to 8192, and the maximum vertical can reach up to 3840.

LED-FW10-C has 3 working mode: Mach mode, Normal mode and Fiber converter; In Mach mode, a single network port can carry 2.2M pixels, with 4 main and 4 backup network ports on the whole machine, and the maximum load of the whole machine is 8.8M; in Normal mode, a single network port can carry 0.98M pixels, with 10 network ports on the whole machine, and the maximum load of the whole machine is 8.8M; Fiber converter is used for equipment as an optical port backup.

LED-FW10-C supports quick screen point function, without the need for computer software configuration for screen connection, greatly simplifying the on-site operating steps.

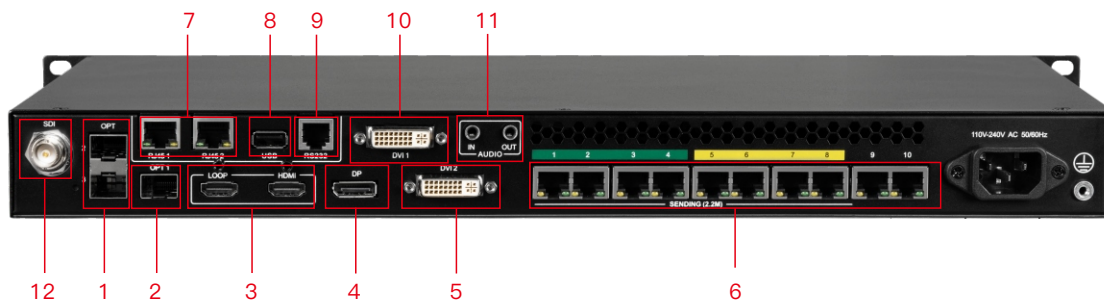
## Features

- Quick light-up screen, no need computer software connection
- Support 10 Gigabit network output ports and customized output resolution
- In Mach mode per 1G cable can load 2.2M pixels
- Input EDID management
- Single port with 4K\*2K/60Hz (HDMI2.0) input
- Support layer size and position adjustment and image crop
- 4 layers display
- Support local USB flash drive for reading and loading configuration files
- Support sequence marking of receiver card
- Support Multi-machine mosaic
- Support automatic adjustment of brightness level
- Support time task function
- Cut switch among signals with no black
- Free cable connection (In Normal mode)
- Seamless switching among multiple layers
- Free image zooming
- Save and load preset
- Support external independent audio input/output
- Support connection with C-Link series receiving card
- Supports network interface communication to set up a localized Grid control for wireless screen control
- 4K@60Hz RGB 4:4:4

## Panel Introduction



- ① Power ON/OFF
- ② LCD screen to show menu contents
- ③ Knob、OK、 Return button
- ④ Layer selection button
- ⑤ Input Source Selection Button
- ⑥ Preset button
- ⑦ Brightness Adjustment Key
- ⑧ Layer size and position adjustment key
- ⑨ Keyboard Lock Button
- ⑩ USB control port

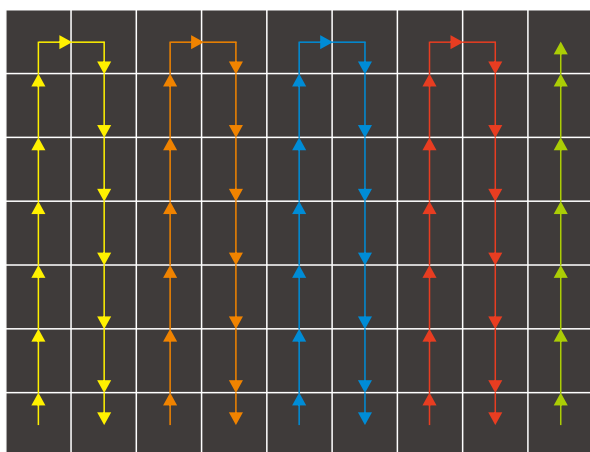


- ① OPT2 /3 input
- ② OPT1 output
- ③ HDMI2.0 input/HDMI LOOP
- ④ DP1.1 input
- ⑤ DVI2 (HDMI1.4) input
- ⑥ 10 Gigabit network output port
- ⑦ RJ45 1/2 (control/cascade)
- ⑧ USB upgrade port
- ⑨ RS232 (control)
- ⑩ DVI1 (HDMI1.4) input
- ⑪ Audio input/output
- ⑫ 3G SDI input

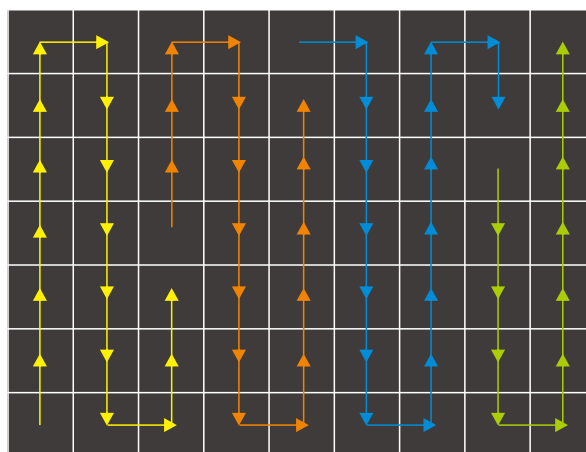
## ▮ Main Features and Characteristics

### ● 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 (Only in Normal mode) .



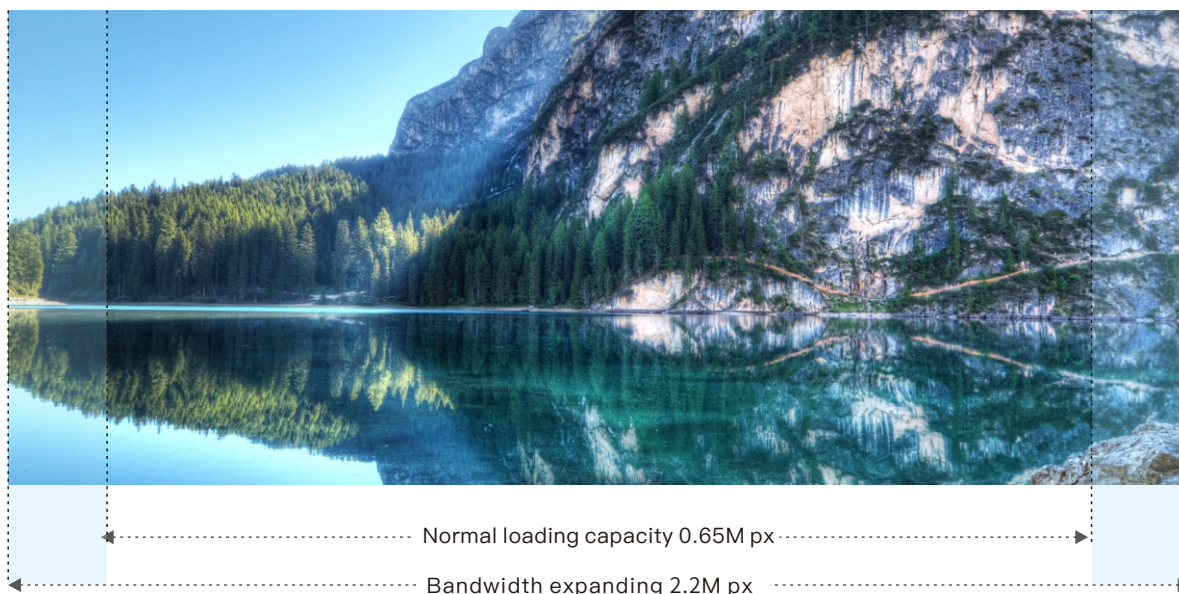
Regular Connection



Free Connection

### ● Large Pixel Capacity

In Mach mode, with unique Large Pixel Capacity function, single port can load 2.2M pixels (60Hz).



## ▮ Main Features and Characteristics

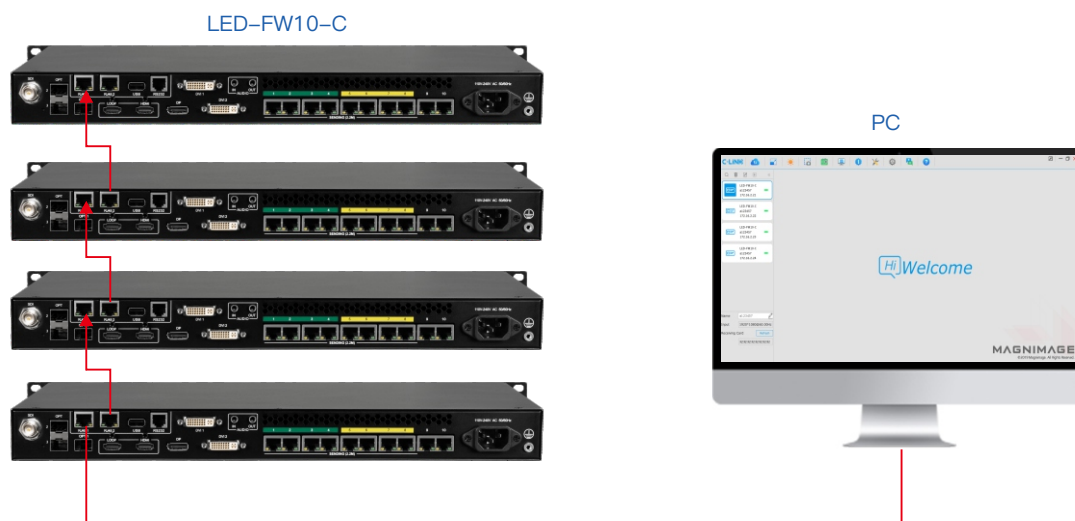
### ● 4 Layers Seamlessly Switching

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



### 🖥️ Multi-machine Cascade Debugging

With the self-grid HUB, no router is required, and multiple devices can be organized in a local area network to realize multi-machine cascade debugging.

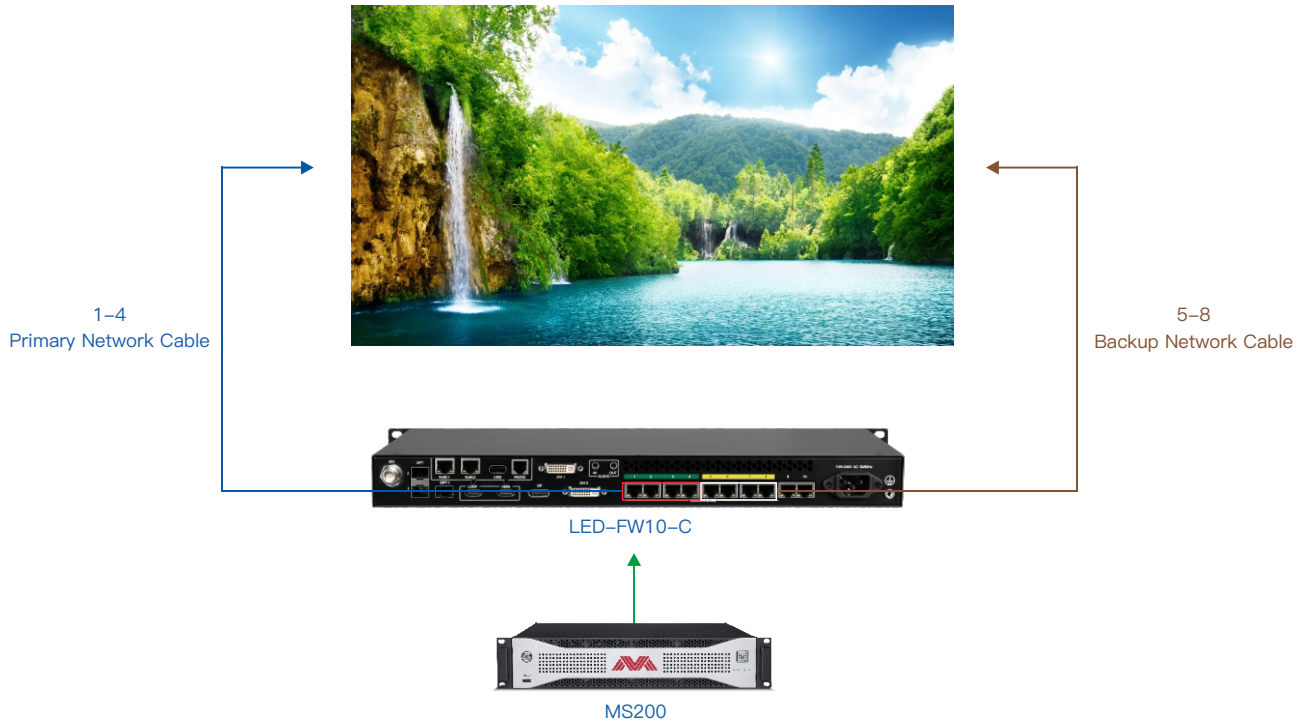




## ▮ Main Features and Characteristics

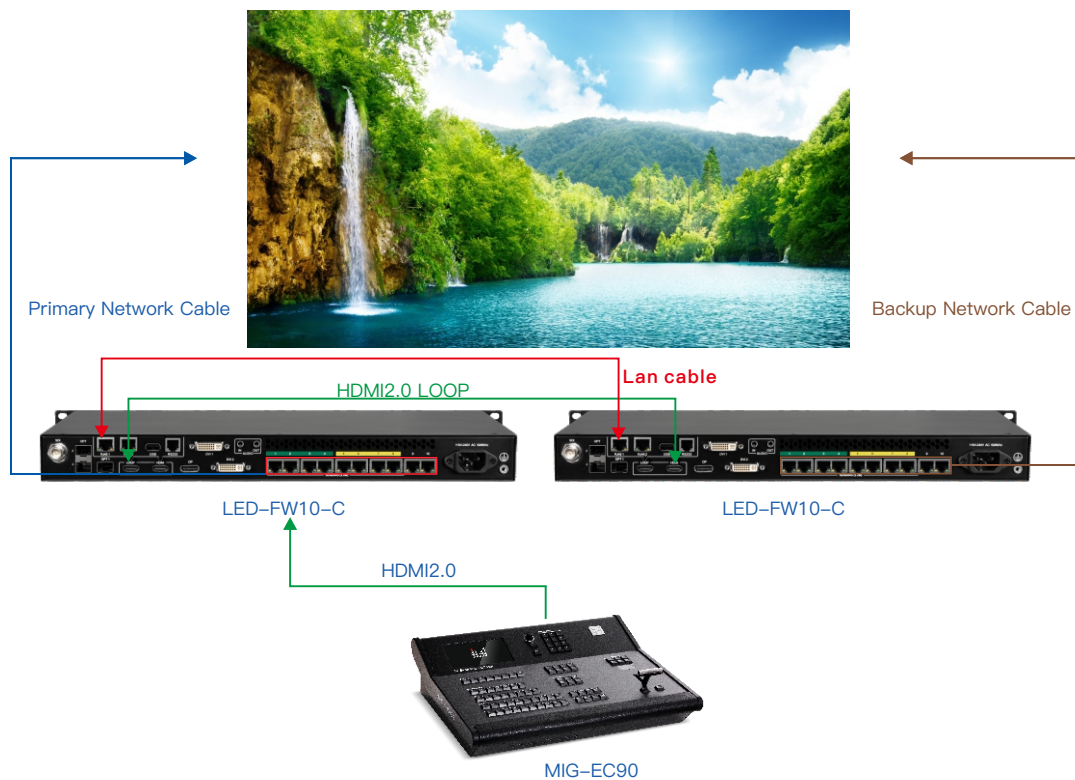
### 🖥️ Single Port Backup

In **Mach mode**, network port 1-4 are fixed as main and 5-8 as backup, network 9-10 can not use.



### 🖥️ Multi-machine Port Backup

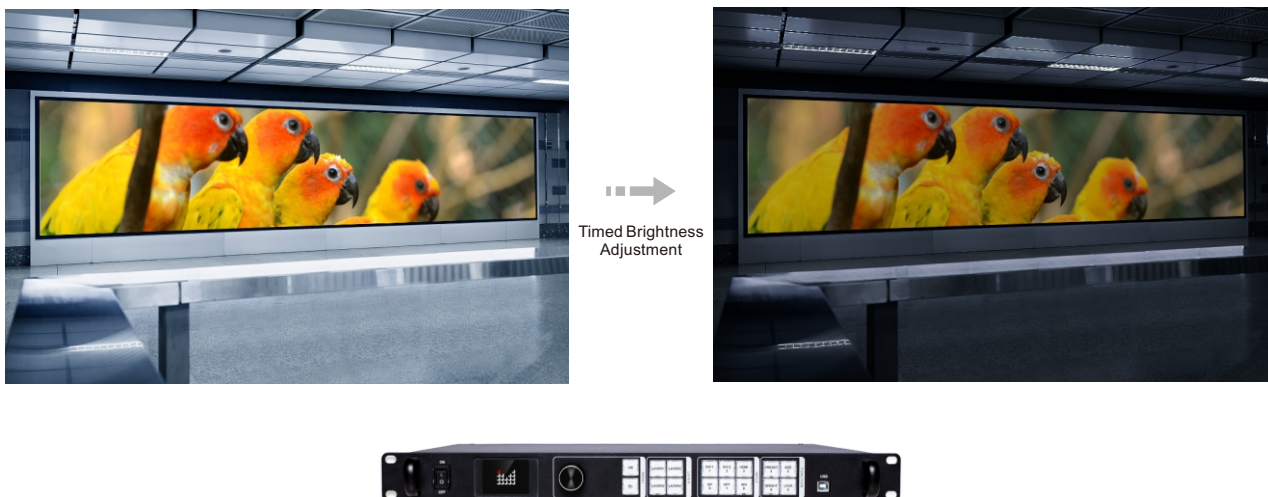
In **Normal mode**, two devices can be cascaded over the network port for device backup.



## ▮ Main Features and Characteristics

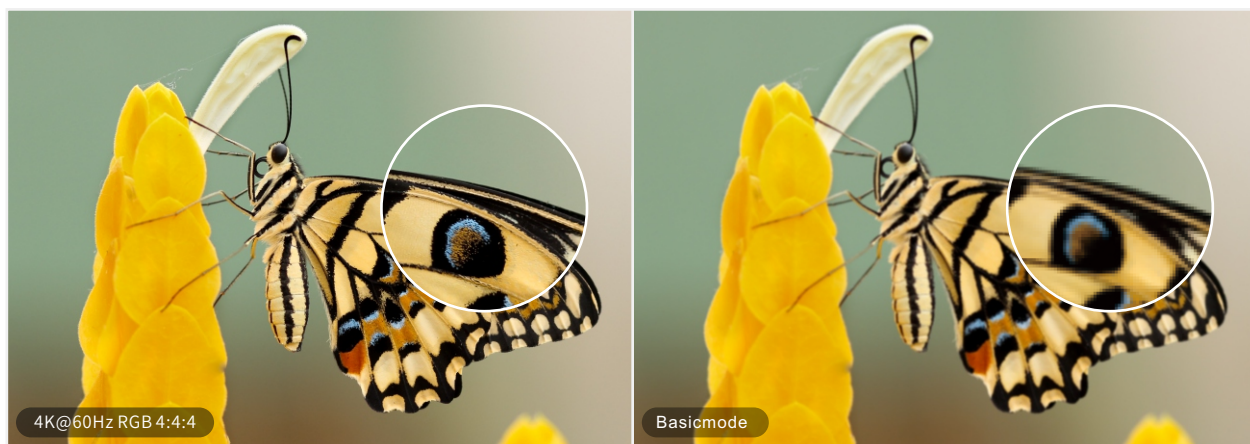
### 🖥️ Timed Brightness Adjustment

Supports automatic brightness adjustment at the set point in time.



### 🖥️ 4K@60Hz RGB 4:4:4

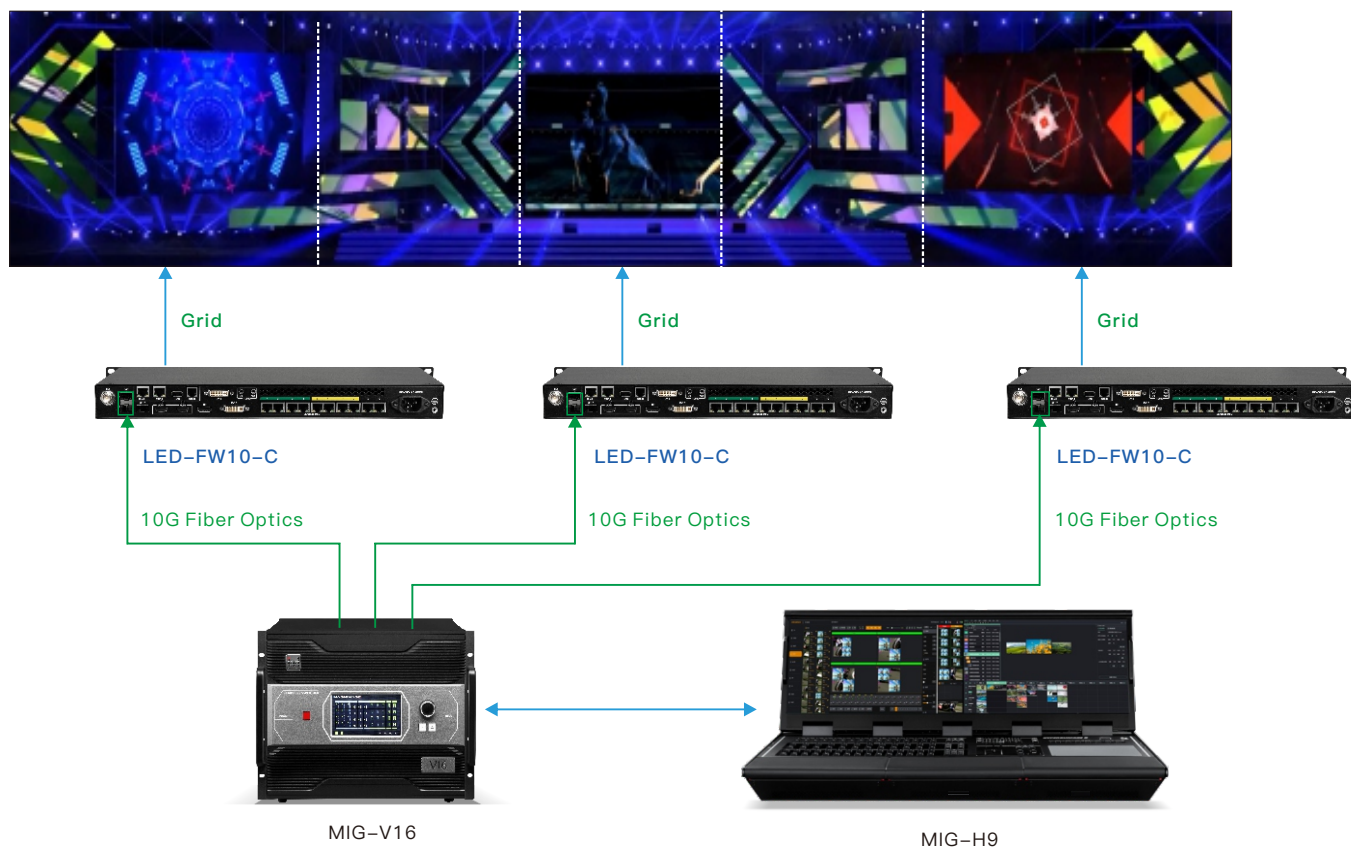
Input, output and internal processing are all RGB 4:4:4 sampling, which can accurately restore the signal source image details. The image display is clear and delicate. At the same time, there is no frame reducing or losing for the whole channel processing of the controller, so the video is played more smoothly, and the image details are fully displayed.



## ▮ Main Features and Characteristics

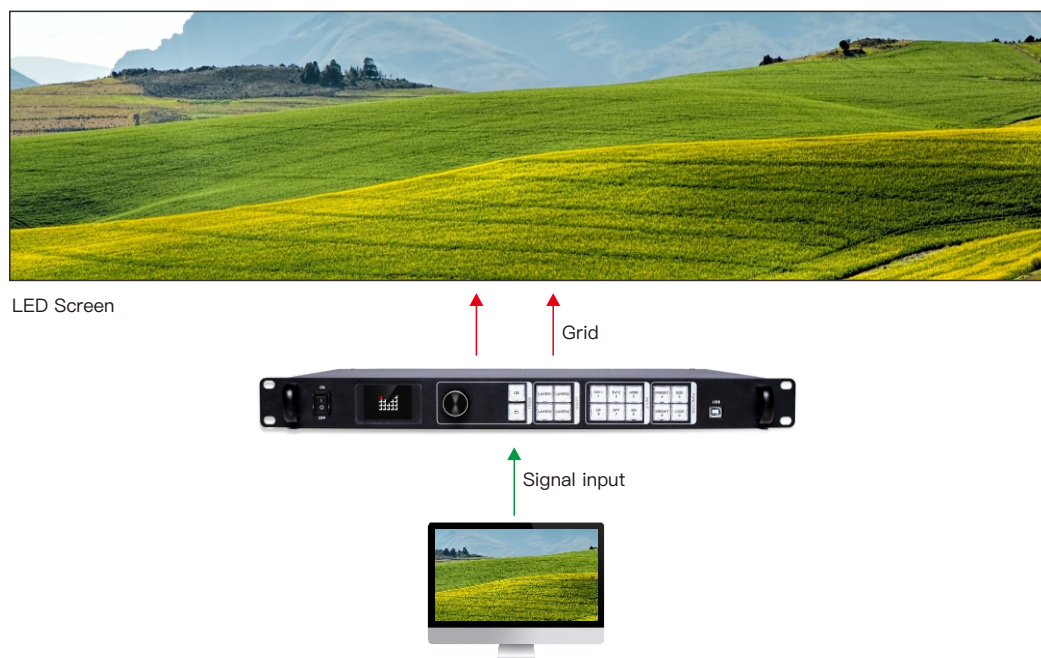
### ▮ Large-scale Rental Solution

Connect the MIG-V16 video switcher to the LED-FW10-C with an optical fiber connector.



### ▮ Fast Light-up Screen

LED-FW10-C can quickly configure parameters of whole LED screen (including screen connection/resolution setting/display size setting ect.) through guide menu, knob and button, light-up screen in a few steps, no need computer software connection.



## Technical parameters

Input specification		
Port	Quantity	Resolution specification
DVI2 or DP1.1(DVI, DP)	1	3840×1080/60Hz、3840×2160/30Hz
HDMI2.0	1	3840×2160/60Hz and can be customized
DVI1	1	3840×1080/60Hz and can be customized
3G SDI	1	720P,1080i/60Hz,1080P/60Hz 3G SDI standard
AUDIO IN	1	3.5mm audio port
OPT2-3	2	For optical port input

Output specification		
Port	Quantity	Resolution specification
Ethernetport (connect receiving card)	10	In Mach mode, 2.2M for the single port, max 8.8M loading for the whole machine, port 1-4 is main and port 5-8 is backup(port 9-10 are forbidden);max horizontal 8192 px, max vertical 3840 px
		In Normal mode, 0.98M for the single port, max 8.8M loading for the whole machine, max horizontal 8192 px, max vertical 3840 px
HDMI LOOP	1	HDMI Loop, the same with HDMI2.0
OPT 1	1	For optical port backup or copied signal output
AUDIO OUT	1	3.5mm audio port

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

Machine Specification	
Input Power Voltage	100-240V AC 50/60HZ
Power Consumption	50W
WorkingTemperature	-10°C - 45°C
Working humidity	5%RH-75%RH
Dimension (L×W×H)	482.6X362X44mm
Weight	4.1KG



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