

VIDEO PROCESSOR SOLUTIONS



VIDEO PROCESSOR SOLUTIONS

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MAG.EC90 RENTAL PRO SERIES



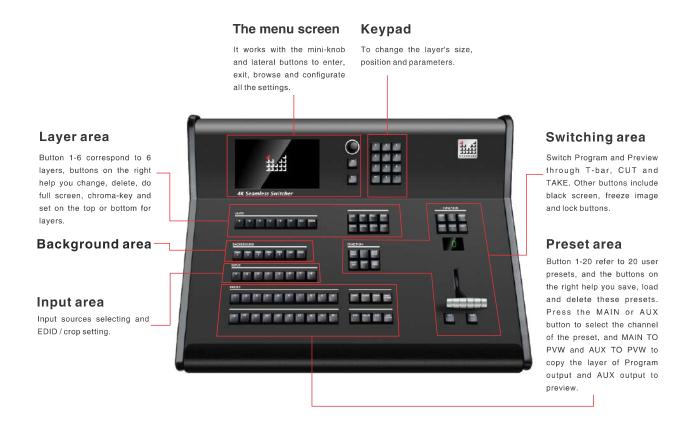
MAG.EC90 is a video switcher wich integrates 4K input & output, multi-layer management and switching control. With the 4K/60Hz 4:4:4 processing technology and 4K matrix design, it allows the 4K mosaic outputs and fade in & out switching.

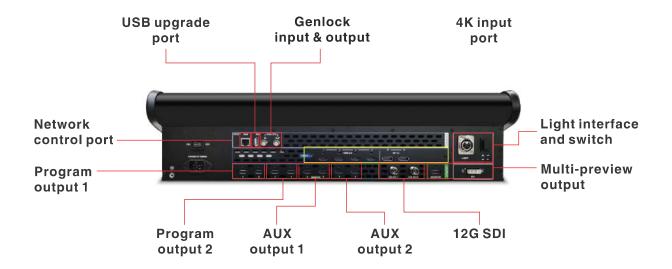
It offers a touched screen to browser and configurate different parameters. Also, the rotate knob helps make accurate setting of each layer's parameters. Compact, powerful, user-friendly, this is why it is a perfect video switcher for rental events.

- ∑ Support 2 Program outputs (mosaic), 2 AUX outputs (mosaic)
- Z 4K*2K/60Hz Program and AUX output
- C Customized input & output resolution
- I HDMI2.0 & DP1.2 input
- 12G SDI input
- Support Program 6 layers & AUX fade switching
- ☑ Support 8 4K*2K/60Hz input
- ✓ Support HDCP1.4&2.2
- Support save and load up to 5 BKG
- Layer shadow effect

- Layer mirror effect
- Layer border effect
- ∠ Chroma Key
- Virtual output
- Support ZOOM and image crop
- Support preview interface customize edit and input source rename
- $\it L$ Support save and load user preset up to 20
- Support touch screen, slide LOGO to unlock and enter menu
- T-bar switch

Switcher introduction





MIG-EC90 series can be grouped into three categories, MIG-EC90-A Input: HDMI2.0×4, DP1.2×2, 12G SDI×2; MIG-EC90-B Input: HDMI2.0×2, DP1.2×4, 12G SDI×2; MIG-EC90-C Input: HDMI2.0×6. The Output configuration is fixed, MAIN and AUX outputs are all 2 main and 2 backup separately.

MAG.EC90PRO



MAG.EC90PRO is a video switcher wich integrates 4K input & output, multi-layer management and switching control. With the 4K/60Hz 4:4:4 processing technology and 4K matrix design, it allows the 4K mosaic outputs and fade in & out switching.

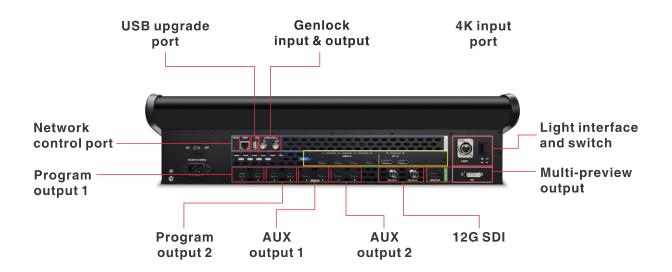
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1 BKG 6 Layers





MIG-EC90 series can be grouped into three categories,MIG-EC90-A Input: HDMI2.0×4, DP1.2×2, 12G SDI×2; MIG-EC90-B Input: HDMI2.0×2, DP1.2×4, 12G SDI×2; MIG-EC90-C Input: HDMI2.0×6. The Output configuration is fixed, MAIN and AUX outputs are all 2 main and 2 backup separately.

MAG.680 RENTAL PRO SERIES



MIG-680 is a 4K seamless switcher which combines input, output, switching and controlling in one machine. Based on its 4K/60Hz 4:4:4 processing technology and matrix design, this switcher is able to manage and switch 4K video freely.

The touched screen allows you to view the menu and set different adjustment. The T-bar and rotatory knob can help you adjust different parameters of a layer.

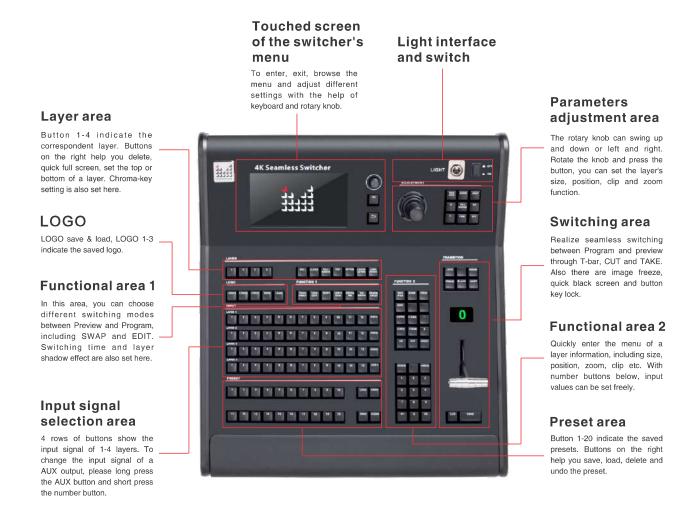
Compact but powerful, MIG-680 is the ideal solution for different rental events.

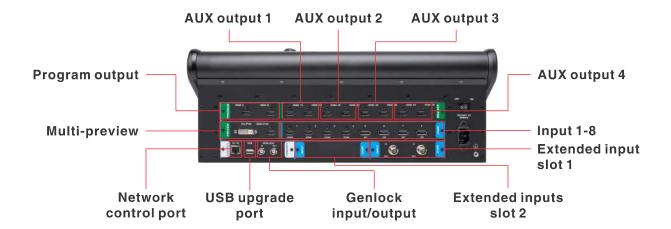
- ${\it L}^{\prime}$ Support 1 Program output, 1 Multi-preview, 4 AUX outputs

- ∇ Support up to 12 channels of 4K×2K/60Hz input
- ${\cal L}^{\prime}$ Support layer clone and shadow function
- ✓ Support HDCP1.4 & 2.2
- ${\cal D}$ Support output of HDMI2.0 & 1.2
- ${\it Z}$ Support Windows & Mac software control

- ${\it L}^{\prime}$ Touched screen, T-bar switching
- $\it L$ 4 layers to 4 layers seamless switching
- ✓ Save & load up to 3 logos
- Layer shadow effect
- Support Chroma-key

Switcher introduction





Notes: every output has 1 duplicate backup output.

MAG.H9 RENTAL PRO SERIES

MAG.H9 Event Console



MIG-H9 is the latest Magnimage large video controller with a high performance CPU which can reach a powerful video processing performance. Slim design and Equipped with a foldable 43.8-inch large touch screen which resolution is up to 3840*1080@60Hz.

MIG-H9 can realize the real-time monitoring of input and output signals, configure layers, target fields scene, target presets, complete seamless switching between various scenes easily.

With MIG-H9, user can save 300 presets and select different switching effect with T-BAR. It's a perfect video control equipment for large conferences and concerts and shows with the use for single or multiple MIG-V16.

□ Product Characteristics

- I pc 43.8 inch HD touch screen, resolution is up tp 3840*1080@60Hz;
- ☑ Save 300 presets, customized OLED label;
- Z Support multiple control methods like Touch/ Mouse&Keyboard/Console keys;
- Real-time monitoring for input/output/preset;
- ∠ T-BAR switch, multiple switching effects available;
- Support built-in UPS uninterruptible power supply;
- Two independent gigabit network ports, used for master control. Another Exclusive HDMI port for console screen monitoring;
- USB port is used for external accessories such as mouse, keyboard and U disk;
- ∠ Support switching three external HDMI input signals to console touch screen;
- ∠ Can cooperate with one or multiple V16 switcher;

Console Description

Layer Selection Area

Cooperate with console menu, user can quickly add/delete corresponding layer on the preview of program/AUX output, and layer top/bottom, full screen quickly and chroma key,etc..

Input Signal Selection Area

One-to-one correspondence with the switcher input.

Preset Area

With the preset keys 1–30 user can realize save/load/delete/page and rename presets on program and AUX output.

Menu Screen

Operation interface of console, can adjust menu parameters and real-time input/output monitoring, etc.

- Function Area

With number keys to quick modify parameters for layer size/position.

Preview Interface Setting Area

First 4 buttons is customized preview template, last 4 buttons is built—in preview template which can use directly.

Switching Area

User can realize Switching between Preview and Output through T-BAR/CUT/TAKE and select switching effects and group control for multimachines.



MAG.V16 RENTAL PRO SERIES

MAG.V16 4K Switcher



V16 is the latest Magnimage high performance full 4K video switcher. The hardware architecture is base on large capacity high-speed FPGA and high-speed digital matrix, and internally adopts RGB 24bit/60Hz processing. With the advanced scaling engine built-in, It supports seamless switching among multi-screens with an excellent image quality and realistic color and no latency. Adopt hybrid matrix input, clients has a variety of 4K/2K input module customization options, support 4K×2K/60Hz 4:4:4 input/output. It also supports real-time monitoring for the input and output.

Cooperate with MIG-H9 console, it can realize fade switch among multi-layers or multi-scenes, widely applied in the auto show, commercial meeting, product launches and stage performances.

Product Feature

- 16 x 4K program output, 2 x 4K AUX output
- 1 x Multi-window preview, preview interface support customize, 1 x HDMI console monitor
- ✓ Max. 24 input ports of 4K x 2K/60Hz 4:4:4
- ✓ Mixed use for 4K/2K cards, Meet a variety of input requirements
- Max. 32 layers for single device, Max. 16 layers for 4K layers
- Support 8 background(pixel to pixel)
- ✓ Support HDCP1.4&2.2

- Input EDID management
- ∠ Image crop, Layer zoom
- ∠ Text overlay
- Support edge blending
- Support external synchronization, Multi-machine cascade
- Dual redundant power supply

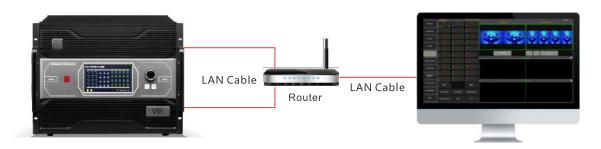
D Switcher Introduction





D Software Control

V16 video switcher can controlled by software, easy and quick operation.



MAG.H8 RENTAL PRO SERIES



MIG-H8 is the latest Magnimage large video console with a high performance CPU whose processing performance is very powerful. Equipped with two 18.5-inch HD touch screens, which can easily switch among inputs and outputs, setup layers, target scene and real time target presets monitoring seamlessly.

With MIG-H8, you can save 300 presets; T-BAR switching, multiple switching effects—optional; controlling multiple switchers such as MIG-V8, MIG-V6 and MIG-V5; it is a perfect video control device for large conferences, interactive performances, concerts and other activities.

∠ Features

- Two pcs 18.5-inch HD capacitance touch screens
- ✓ Supports save 300 user presets with custom OLED Tags
- ✓ Supports multiple control methods like touch screen, keyboard & mouse, console keys
- ∠ Real time monitoring of input, output and preset in console
- T-BAR switching, multiple switching effects can be selected
- $\ensuremath{\mathbb{Z}}$ Two independent gigabit network ports, one for master control system and one for IP monitoring
- ∠ The USB port is used to connect other external accessories, such as mouse, keyboard, U disk, etc
- ✓ Supports external two monitors, supports external DVI signal switch to display on console touch-screen
- ☑ It can work with single or multiple MIG-V8, MIG-V6 and MIG-V5

Control table

Preset area

The preset keys 1-30 cooperates with the edit keys in the area to save, load, delete, turn page, rename presets of the program output and aux output.

Output area

Cooperates with the console menu, the corresponding_program output, aux output and aux loop can be quickly selected.

Layer selection area

Cooperates with the console menu, we can quickly add and delete; top or bottom; quick full screen and chroma key the corresponding layers in the preview of the program output and aux output.

Touch screen

The operation interface of the console can be displayed on the left and right screen, which can adjust various menu parameters and input/ output images in real time.



Input signal selection area

One-to-one correspondence with the input of the switcher.

Switching area

The switch between preview and output can be realized through T-BAR, CUT and TAKE; MAIN and AUX keys controlling whether the operation is to switch the program output, the aux output or at the same time; Output image freeze, quick black screen, lock console keys.

Functional area 1

Cooperates with number keys, we can quickly modify the size and location of the layer.

Functional area 2

Cooperates with number keys, we can quickly modify the size and location of the layer.

Light interface

supports 2 lights for lighting.

LAN and USB 1-3 ports

Two independent LAN ports for gigabit network, one is for main control system, another one for IP real-time monitoring .External keyboard.control MIG-H8 via mouse, external U disk for upgrading controller software.



Controller port and switch

DVI port, USB4-6 and DIP switch

DVI output: external 2 monitors to show controller operation interface;

DVI input: external DVI input signal can display on the controller touch screen via this port:

USB port : Driver port for two touch screen and controller keys;

DIP Switch: Switch the signal from internal controller or external controller, default state signal from internal controller.

This area is designed for controller backup.

MAG.V8 RENTAL PRO SERIES





MIG-V8 is the latest Magnimage high performance video switcher, using a large storage high speed FPGA and hardware structure with high speed digital bus matrix, which adopt RBG 24bits/60Hz processing inside.

Built-in a high performance zoom core, MIG-V8 supports Multiple screens output seamless splicing, makes output signal clearer, delicate, colorful and ensures the output signal synchronous and no latency. It adopts mixed matrix input, various 4k, 2k input customized module options, supports 4K*2K/60Hz 4:4:4 input and real-time preview to the input and output signal.

Cooperates with consoles like MIG-H8, MIG-V6 it can realize fade-in/out switching among multiple layers and scenes, it was widely used in car exhibition, business conference and stage show, etc.

∠ Features

- ∠ 8 program output, support 16 layers, layer size and position changes arbitrarily.
- ☑ 8 AUX output, supports mosaic and zooming.
- ∠ 3 Aux loop output
- I multi-screen preview, input and output signal real-time preview, and supports customize layout.
- \mathcal{D} 1 IP output for monitoring on the console.
- ☑ 36 mixed matrix input, with multiple 2k, 4k input options.

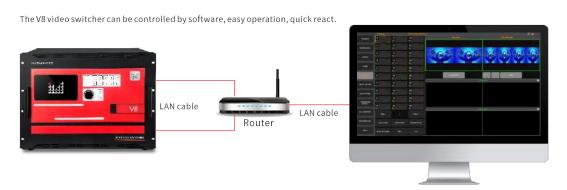
- ✓ Support HDCP1.4&2.2.
- ✓ Supports 4K*2K/60Hz 4:4:4 input.
- ${\cal D}^{\prime}$ Supports HD native background capture.
- EDID management on input signal.
- Image crop, layer zooming.
- Test overlay.
- Edge blending.
- ${\rlap/} {\it \hbox{$\it C$}} \ \, {\rm Supports\,outer\,synchronization\,and\,multiple\,devices\,cascade}. \\$

Switcher introdution





D Software control



MAG.H6 **RENTAL PRO SERIES**

MAG.H6 **Event Console**

* Requires: MAG.V8 MAG.V6 MAG.V5



MIG-H6 is the latest Magnimage medium video console with a high performance CPU whose processing performance is very powerful. Equipped with one 18.5-inch HD touch screen, which can easily switch among inputs and outputs, setup layers, target scene and real time target presets monitoring seamlessly.

With MIG-H6, you can save 300 presets; T-BAR switching, multiple switching effects optional; controlling multiple switchers such as MIG-V8, MIG-V6 and MIG-V5; it is a perfect video control device for large conferences, interactive performances, concerts and other activities.

∠ Features

- ✓ One pcs 18.5-inch HD capacitance touch screen
- ${m Z}$ Supports save 300 user presets with custom OLED Tags
- console keys
- ☑ Real time monitoring of input, output and preset in console
- ✓ T-BAR switching, multiple switching effects can be selected
- ☑ It can work with single or multiple MIG-V8, MIG-V6 and MIG-V5
- Two independent gigabit network ports, one for master control system and one for IP monitoring
- ${\it Z}$ Supports multiple control methods like touch screen, keyboard & mouse, ${\it Z}$ The USB port is used to connect other external accessories, such as mouse, keyboard, U disk, etc
 - Supports external two monitors, supports external DVI signal switch to display on console touch-screen

Control Instruction

Preset area

The preset keys 1-30 cooperates with the edit keys in the area to save, load, delete, turn page, rename presets of the program output and aux output.

Output area

Cooperates with the console menu, the corresponding program output, aux output and aux loop can be quickly selected.

Layer selection area

Cooperates with the console menu, we can quickly add and delete; top or bottom; quick full–screen and chroma key the corresponding layers in the preview of the program output and aux output.

Touch Screen

The operation interface of the console can be displayed on the left and right screen, which can adjust various menu parameters and input/output images in real time.



Input signal selection area

One-to-one correspondence with the input of the switcher.

Functional area 1

Cooperates with number keys, we can quickly modify the size and location of the layer.

Functional area 2

Cooperates with number keys, we can quickly modify the size and location of the layer.

Switching area

The switch between preview and output can be realized through T-BAR, CUT and TAKE; MAIN and AUX keys controlling whether the operation is to switch the program output, the aux output or at the same time; Output image freeze, quick black screen, lock console keys.

Light interface

Supports 2 lights for lighting.

LAN and USB 1-3 ports

Two independent LAN ports for gigabit network, one is for main control system, another one for IP real-time monitoring, External keyboard.control MIG-H8 via mouse, external U disk for upgrading controller software;



Controller port and switch

DVI ports, USB 4-6 and DIP switch

DVI output: external 2 monitors to show controller operation interface:

DVI input: external DVI input signal can display on the controller touch screen via this part:

USB port : Driver port for touch screen and controller keys;

DIP Switch: Switch the signal from internal controller or external controller, default state signal from internal controller;

This area is designed for controller backup.

MAG.V6 RENTAL PRO SERIES

MAG.V6 Video Switcher



MIG-V6 is the latest Magnimage high performance video switcher, using a large storage high speed FPGA and hardware structure with high speed digital bus matrix, which adopt RBG 24bits/60Hz processing inside.

Built-in a high performance zoom core, MIG-V6 supports Multiple screens output seamless splicing, makes output signal clearer, delicate, colorful and ensures the output signal synchronous and no latency. It adopts mixed matrix input, various 4k, 2k input customized module options, supports 4K*2K/60Hz 4:4:4 input and real-time preview to the input and output signal.

Cooperates with consoles like MIG-H8, MIG-V6, it can realize fade-in/out switching among multiple layers and scenes, it was widely used in car exhibition, business conference and stage show, etc.

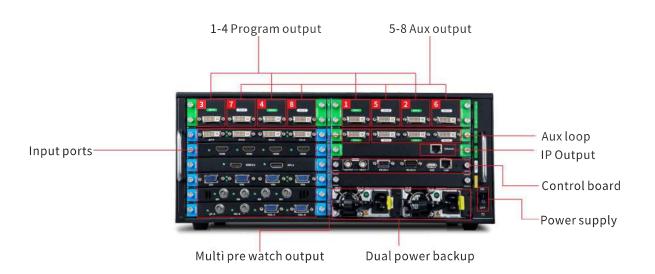
∠ Features

- ✓ 4 program output, support 16 layers, layer size and position changes arbitrarily.
- ${\cal D}$ 4 aux output, supports mosaic and zooming.
- ∠
 3 aux loop output.
- I multi-screen preview, input and output signal real-time preview, and supports customize layout.
- ${\cal D}$ 1 IP output for monitoring on the console.
- ∠ 24 mixed matrix input, with multiple 2k, 4k input options.
- ✓ Supports 4K*2K/60Hz 4:4:4 input.

- ${\bf Z \!\!\!\! / }$ Supports HD native background capture.
- ✓ Image crop, layer zooming.
- Test overlay.
- Edge blending.
- Z Supports outer synchronization and multiple devices cascade.
- Dual power supply redundancy backup.
- ✓ Support HDCP1.4&2.2.

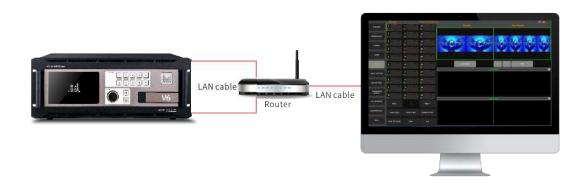
Switcher introduction





Software control

 $The \ V6 \ video \ switcher \ can \ be \ controlled \ by \ software, easy \ operation, \ quick \ react.$



MAG.H2 RENTAL PRO SERIES

MAG.H2 Event console



Single MIG-H2 event console can control 9 V2 at most, when works with V2 .itcan realize multidisplay effects, multi-layer switching, multi-scene switching, backup, etc. And it widely applied in auto show, conference, products launching, and stage show etc events.

MIG-H2 adopts a high brightness LCD screen to display the menu. Via the front interface keys to setup the machine, then the LCD screen will display the current menu. The T-bar and rocking bar are designed for convenient and visualized operation.

- H2 can work with multi-V2,or single machine operation.
- Single H2 console can control 9 V2 at most ,or other mainframes.
- Save max 24 presets ,powerful multi-scene seamless switching.
- Support LOGO capturing and image-text overlay T-bar switching, cut and take effects keys for switching.
- Support group control function in the case of multi-V2 cascading connection.

Processor introduction



1--Screen and menu setting area Enter or ex1t menu,control cusor move up and down, and 1n special menu,realize appointed

4--Adjustment area Analog stick up,down,left,right and roate,can control cursor move up and down and enter or exit menu, in special menu, modify size and position oflayers.

7--Presets edit area
Via SAVE,COPY,LOAD key to save /copy/
load the presets,after time setting up in
the menu ,user can press Next key to enter
the nexttask, press Previous key to back to
the previous task,and press
Sequence key to restart the task.

10--Layer area
The button of 1 to 4 corresponds to 4
layers, clear layer order number button:
clear current layer; Clear+All: clear all
layers. Layer in setting is red.

14--LAN port H1 can control the H2 host. H1 can link to hosts via LAN. It uses a crossed networking wire, one side 586A, the other s1de 586B.

17--Power port Insert the power line.

2-- Mode option area
We use this area function setting to
achieve copy, switch or EDID mode in
between the main program and preview
output.

5--Switching area
Controlthe speed of switching by T-bar,
SHIFT + BLACK FREEZE key to output
black single in program or freeze the
program image, besides,the key TAKE and
CUT can also be used for fade or instant
switching.

8--Presets option area
Each number key can corresponds to its
own saving presets, also the user could
save presets wanted by him/herself with
the buttons in preset edit area.

11--Inputselecting area Number buttons 1 to 12are correspond to 12 1nputs, and the current signal of layer can be choosed, its colorisred.

15--RS232 control port Reserve RS232 control port.

18--Console power switch

3--Destinations area According to the number of IP addresses of hosts, from minimum to maximum corresponding to 9 hosts repectively.

6--Function area
Shortcut key for functions in menu. Top
and bottom layers.Choose background
1,2or 3.Choose a pure color background.
Color key, VGA adjustment choose multi
screen previews page 1 or 2.Setfade in
and fade out time. Input and output edit

9--Group area
MIG-V2 which controlled by H2 can be
grouped. max 4 groups,divide the V2 into
groups by the group function in menu.

12--Console light switch

shortcut keys.

13--Console power port

16--USB port By inserting USB stick can upgrade MIG-H1; store orread preset file through USB flash disk.

MAG.V2 Video Switcher



High performance video switcher host MIG-V2 adopts advanced internal 12 bit algorithm, and it makes image clearer, more delicate and colorful. It ensures the output signal synchronization and reducibility as well Single host supports one channel output, it can support 1920*1080 pixels, and it supports a multi screen preview display. The input terminal has built-in video matrix. standard configuration supports 8 inputs(optional), maximum number of inputs can be extended to 12, and it can achieve the synchronization lock of input signals to ensure the sync output of signal. MIG-V2 host works with console control MIG-H2/MIG-H1, it can achieve fade switching between 4 layers in program and 4 layers in preview. It can achieve big size LED screen splicing display, multi images switching, multi scene switching, backup function. It has been widely used in automobile exhibition.convention.product release conference, stage performance and so on.

MIG-V2 host adopts large capacity of FPGA array and high speed digital bus matrix as the basic hardware frame, for each kind of input signal, internal process adopts RGB 24 bits/60Hz, meanwhile with built in high performance compression engine, supports seamless splicing of multi screen output, making the output images clearer, smooth, no delay.

MIG-V2 host supports multi signal inputs, including DVI, VGA, HDMI, SDI, it can achieve input signal EDID management. All series products are equipped with after-sale service module, and it support USB upgrade and network control. It is very convenient for technical support and after sales maintenance.

- One main output, one multi-preview output
- Built-in video matrix, maximum support 12 mixed video inputs
- Customized DVI input resolution
- ✓ Support fade-in and fade-out Single running 1920*1080
- The main output support 4 layers and 1 HD background
- Support Screen shots and chroma key
- Support synchronization and multi-machine cascade
- Simple, practical and easy operate

D Switcher introdution



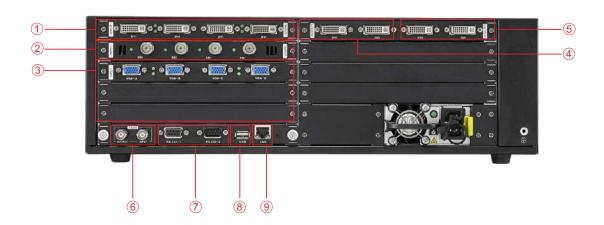
1--Display screen:

It indicates the working condition of current host and browse input information, electrical conditions.

2--Function keys: In given menu interface, achieve specified function.

3--Menu keys:

Browse or set menu content, including the confirmation key, return key and quick button.



1--4×DVI input

2--4×SDI input

3--E.M. input plugs

4--Program output

5--multi window preview output

6--Frame lock plugs

7--RS 232 plugs

8--USB for software upgrade

9--LAN

MAG.V5 RENTAL PRO SERIES

MAG.V5 Video Switcher



MIG-V5 is the latest Magnimage high performance video seamless switcher, using a large storage high speed FPGA and hardware structure with high speed digital bus matrix, which is RBG 24bits/60Hz processing inside.

Built-in a high performance zoom core, MIG-V5 supports Multiple screens output seamless splicing, makes output signal clearer, delicate, colorful and ensures the output signal synchronous and no latency. It adopts mixed matrix input, various 4K, 2K input customized module options, supports 4K*2K/60Hz 4:4:4 input, 8K*1K /60Hz input and real-time preview to the input and output signal via multi-screen preview output.

Cooperates with consoles like MIG-H8, MIG-H6, it can realize fade-in/out switching among multiple layers and scenes, it was widely used in car exhibition, business conference and stage show, etc.

- ${\cal O}$ 4 program output, support 16 layers, layer size and position changes arbitrarily
- 4 AUX output, supports mosaic and zooming
- **Z** 3 AUX loop output
- $\ensuremath{\mathcal{D}}$ 1 multi-screen preview, input and output signal real-time preview, and supports customize layout
- \$\mathcal{L}\$ 20 mixed matrix input, with multiple 2K, 4K input options
- ${\cal D}$ Supports 4K*2K/60Hz 4:4:4 input, DP support 8K×1K/60Hz input

- ∠ Supports HD native background capture
- EDID management on input signal
- ✓ Text overlay
- ${\cal D}$ Edge blending
- Z Supports outer synchronization and multiple devices cascade
- ✓ Support HDCP1.4&2.2

Switcher introduction

Function keys

Accomplish special function such as setting main unit's IP address in specific menu.

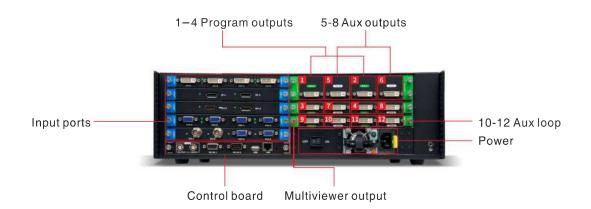


Menu display

Shows MIG-V5 present working status, including input information, electric status, firmware version, etc.

Menu keys

Enter/exit menu, paging, and parameter adjustment, etc



✓ Software control

The V5 video switcher can be controlled by software, easy operation, quick react.



MAG.DN9404 VIDEO PROCESSOR

MAG.DN9404

4K Video-wall controler



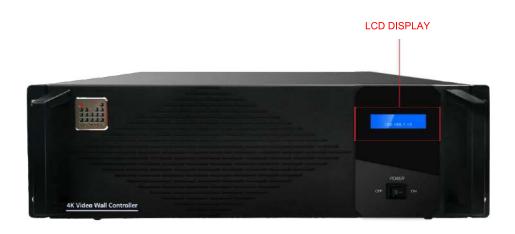
The MIG-DN9400 series is a complete 4K input/output video splicer, which is the central core processing device in the large-screen splicing system. A variety of input sources in different formats can be implemented, and functions such as arbitrary splicing, zooming, windowing, roaming and overlaying can be implemented on a variety of display terminals. High-speed and large-capacity FPGA-based hardware architecture and high-speed digital bus matrix is adopted to ensure high signal reproducibility, and the output image is clear, smooth and without delay.

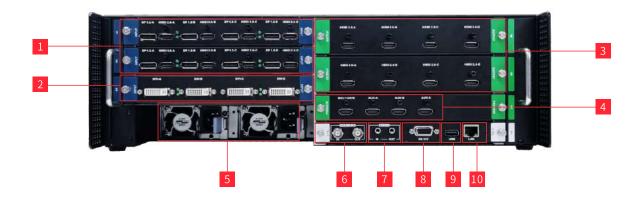
Deep modular design, input/output configuration upon request, currently supports 4U and 8U chassis options, MIG-DN9400 series is widely used in various industries, such as government, transportation, water and electricity, health care, education, radio and television, shopping malls and other industries Multimedia conference room, multi-function room, command and dispatch center, monitoring center, theater, studio, exhibition hall, etc.

- Pure FPGA architecture, stable and reliable
- Supports multiple 4K/60Hz inputs
- ✓ Supports multiple 4K/60Hz outputs
- Single output supporting 4 layers 4K
- Support input/output resolution, refresh rate customization
- Support 10-bit input/output
- HDR10 support
- Seamless switching between presets

- Output display grouping control support
- Support time task function
- Monitor output support
- Support software echo
- Support projection merging
- Support subtitle function
- Support background base map
- Central control support

Processor Panel Introduction





- 1 HDMI2.0, DP1.2A
- 2 DVI input
- 3 HDMI2.0
- 4 MULTI, AUX

- 5 Dual power supply redundancy backup
- 6 Genlock interface
- 7 AUDIO
- 8 RS232

MAG.DN9402 VIDEO PROCESSOR

MAG.DN9402 4K Video-wall controler



Product Overview

MIG-DN9402 is one of Magnimage's new 4K processor, which is specially designed for large resolution display system. Adopt the highest level video processing chip,internal 24 bits system ,4K/60HZ 4:4:4 technology . interal system adopt 4K&2K matrix function, support multiple 4K input .

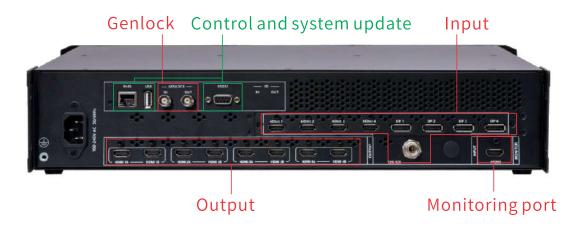
Advanced cross-point image processing technology, make sure no delay and jag, output image more clear and smooth. Abundant input, which support max 9 4K channel input. Include 4K DP,DP,12GSDI.

- ☑ 4 channel 4K out(still have backup port),4Kx2K,60HZ
- ✓ Support 4K*2K/60hz 4:4:4 input
- ✓ Support HDCP 1.4&2.2
- 1 HDMI out for monitoring
- ☑ 9 channel matrix input (4xHDMI 2.0,4xDP1.2,1x12G)
- SDI extender module)

- ∠ Support background capture and save
 2 background can be saved
- ☑ Support EDID management, and input rename
- ✓ Support Genlock Sync
- ✓ Support 20 preset, saving and calling

Processor Panel Introduction





- □ Support 9 channel input, DP1.2x4, +HDMI2.0x4+12G SDI(extender option)
- □ Output Interface: total HDMI2.0 x8 (inclue backup port x4)+ Monitoring HDMI x1
- □ Lan port and RS232 controling

- □ Support Genlock Sync module
- □ Support USB update

LED.EC40 VIDEO PROCESSOR

LED.EC40

Video Processor



LED-EC40 Series product is video switcher developed for display system, using industry's top image processing chip, 24 bit digital processing, and 4K/60Hz 4: 4: 4 image processing technology. These makes image more clearer and colorful, built-in 4K and 2K matrix can support fade switch between multiple 4K and 2K inputs.

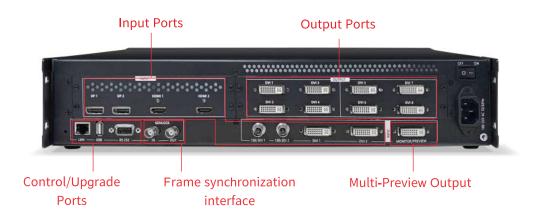
Advanced interfacing motion image adaptive processing technology, eliminate video image motion trailing and jagged problem, makes the output more clear and delicate. Rich video interface which support 8 UHD video input interface including DP1.2, HDMI2.0, 12G SDI and DVI.

LED-EC40 is equipped with one touch screen for quick menu browsing and parameter adjustment, Knobs and buttons can accurately adjust various parameter of layers. It's very popular for rental events for the small size, powerful function and convenient use.

- Switcher Mode: 4 Program output, support 4 layers, layer size and position freely change
- Support 4K*2K/60H 4:4:4 input
- ✓ Support HDCP1.4&2.2
- ${oldsymbol {\cal L}} = 1$ Multi-window preview, preview input signal, real-time monitoring output, custom layout
- ∠ 8 Mixed matrix input, multiple 2K/4K input
- Background picture capture
- Input EDID management
- ∠ Image Crop, Layer Zoom
- Touch screen control
- 20 presets save and Load
- Hot backup

D Switcher Introduction







- □ 8 input ports in all, 2*12G SDI and 2* 2K DVI with default, 3 options for DP and HDMI, DP 1.2*4 or HDMI 2.0*4 or DP 1.2*2 + HDMI 2.0*2
- $\hfill\Box$ Output is fixed with DVI1.4*8 and Multi-preview DVI*1
- $\hfill\Box$ Support button control/Network control/RS232 control
- □ Suuport Genlock Sync
- □ Support USB-DISK upgrade

MAG.CL9600 VIDEO PROCESSOR

MAG.CL9600

Video-wall controler



MIG-CL9600 series is the latest pure hardware video wall controller from Magnimage. With a high-performance scaling engine, it is able to build up screens of multi-layers and pixel to pixel seamless mosaic. Based on advanced FPGA array and high speed digital bus-matrix, its RGB 24bit/60Hz processing capacity will perfectly output any video or image at very low latency. It is designed for security monitoring, administrative management, military command, exhibition, research & education office, and multimedia conference.

On the input part, you can customize the machine with different input options from DVI, HDMI, SDI, DP, and IP camera. It supports $4K \times 2K / 60Hz$ input and EDID management.

On the output part, it supports customized output resolution, up to 12 layers per output channel, layer roaming, mosaic of different screen pixel pitch, background saving. These functions make MIG-CL9600 a great solution for big fixed installation of LCD/DLP/LED/projector mosaic.

- Pure FPGA hardware build-ups
- 12 independent layers per output
- ✓ Over 8 times scaling
- ✓ Splice LED wall of different pixel pitch
- Internal 24 bit RGB processing
- ✓ Input EDID management
- ✓ Support HDCP1.4&2.2
- √ 4K×2K/60Hz input
- $I\!\!\!/$ Real time seamless switching
- Layer grouping
- Support SDI output

- 9 window per channel
- Random adjustment for the window's size and position
- Full screen roaming
- Customized output resolution
- Input/output monitoring
- Capture 4 background picture
- Dual Power supply backup
- Operation's real time monitoring
- Real time IP monitoring
- Projector edge blending splicing
- Caption and label

Video wall controller introduction

LCD screen

Mainly used for displaying the machine status information, including input/output cards' specification, firmware version, temperature, network setting



Menu button

OK button, \Rightarrow return button, and knob. Browse the menu system with the coordination of LCD screen.

Function button

Button 1~10, used for inputting the equipment configuration information, such as IP address and Subnet mask of network setting, etc. and manual switching for presets.



- 1 SDI outputs
- 5 4 HDMI inputs
- 9 IP monitoring
- 13 Frame lock input/output
- 2 DVI output
- 6 HDMI2.0 \DP1.2 input
- HDMI2.0 \DP1.2 inpt
- 10 Network control port
- 14 Power button
- 3 4 DVI inputs
- 7 DP 1.1 input
- 11 USB upgrade port
- 15 Dual power backup
- 4 VGA inputs
- 8 4 SDI input
- 12 RS232 control port

Control pattern and control interface

Control modes

3 ways to control: computer host control, iPad software control, button control:

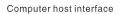
Computer host control: connect the controller with a computer via lan cable or RS232 cable, All operation will be done through the host coftware:

iPad control: install software to iPad, control the controller via software;

 $\label{eq:button control:manually select and load the templates.}$

Operating Interface







iPad control interface

MAG.W4000 VIDEO PROCESSOR

MAG.W4000

Video Processor



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.

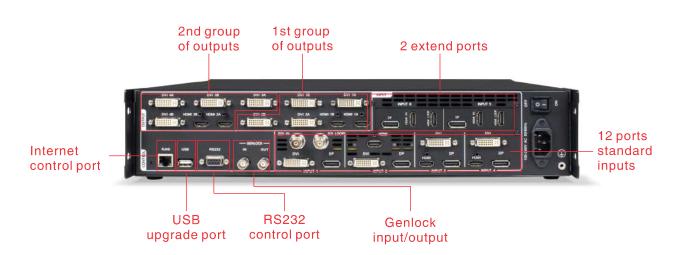
The load capability of LED-W4000 series is several times of normal video processor, support EDID management and customized output resolution, single processor output can be maximum 8192 pixel width, refresh rate up to 120Hz, greatly improved the utilization of load capability. It also provides various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

- 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
- C 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





- □ 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.
 - $Resolution\ specification:\ SDI\ (3G\ SDI:\ 1080P/I\ and\ below)\ ,\ HDMI,\ DVI\ and\ DP,\ all\ support\ EDID\ within\ 4K\times 1K/60Hz.$
- □ 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.

MAG.W2000 VIDEO PROCESSOR

MAG.W2000

Video Processor



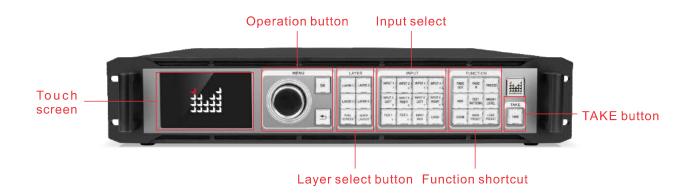
LED-W2000 series is an 4K*2K video processor which integrates multiple functions such as mosaic, switch and multi-window display. This processor integrates various professional input ports, single input support maximum 4K*2K/60Hz or 8K*1K/60Hz. Because of the high-quality images, pixel to pixel display of giant resolution and flexible operation ways, it is widely used in exhibitions, business conferences, stage performances, theaters and TV stations etc,.

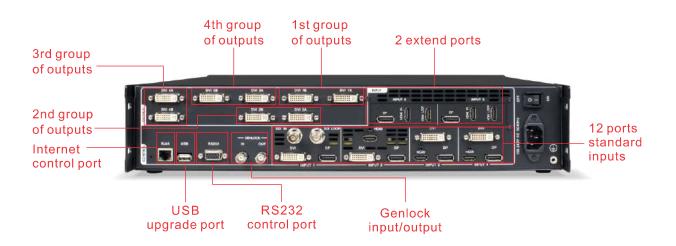
The load capability of LED-W2000 series is several times of normal video processor, support EDID management and customized output resolution, single processor output can be maximum 8192 pixel width, refresh rate up to 120Hz, greatly improved the utilization of load capability. It also provides various 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 allowed to extend 2 more inputs each for DP1.2/HDMI2.0. It supports Internet, USB and RS232 control to link with various video equipment.

- ## 4K*2K mosaic output: 8 channels DVI output (4 host *4 stanby)
- All-purpose machine, multiple modes of operation: Mosaic mode: 4K*2K/60Hz input/output pixel to pixel display Backup mode: input signal hot backup, seamless switching of one single input or Tile inputs
- 4 layers
- ∠ Image freeze
- ∠ Layer ZOOM
- Layer rotation
- Multi-machine cascade switch
- USB upgrade
- ${\it Z}^{\prime}$ Time task management

- Various input ports:
 DVI*4, HDMI*3, DP*4, SDI*1,
 and 2 extended 4K*2K/60Hz inputs
- EDID managment
- Customized output resolution
- Support input Tile function
- Support HDCP
- ${\mathcal D}$ Support save and load preset
- Built-in test pattern
- Software control
- LOGO function
- Image crop
- Brightness level adjustment, low brightness and high gray level





- □ 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 port can use one out of two.
- □ Output: 4 groups of DVI output, each group includes 2*DVI copy output.

MAG.780H VIDEO PROCESSOR

MAG.780H

Video processor



LED-780H, a superior approach to better visual performance for LED walls. It is a 4K x 2K/60Hz capable video processor for 4 screens splicing. With EDID and user-defined output management, it delivers 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 products in terms of loading capacity and broadband utilizing rate (the up-processes width is 15360, and refresh rate reaches up to 121 Hz).

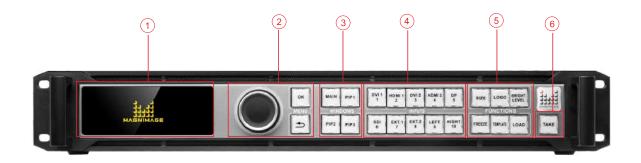
Also, 16 selective built-in resolutions allow user to scale and match the real size of LED walls. Input ports include DVIx2, HDMIx2, DPx1 (4K), SDIx1 (with loop function). For extended inputs, user can choose 2 ports from VGA, DVI and SDI or one 4K input port from DP1.1 or HDMI 1.4. It accepts network linking, USB linking or RS232 linking for different control demands.

- 4 screens splicing in 1 processor:
 - 8 DVI output ports are divided into 4 groups for horizontal splicing, vertical splicing, same size splicing, and different size splicing. A single unit up-loads 8,000,000 pixels and accepts splicing for 4 screens.
- 4 windows output
 On non-splicing mode, each output is capable of displaying
 4 layers with any size or position.
- Output monitoring:
 Real time monitoring can be seen on the computer or monitor
- Real time monitoring can be seen on the computer or monitorafter adding an extended module.

 Multiple cascade:
- Machines can be cascaded to realize ultra wide display.

 Built-in input matrix for seamless switching between 8 inputs
- Built-in input matrix for seamless switching between 8 inputs
- Logo saving
- Image freezing
- Preset saving & loading
- Accurate control for brightness & high grey level

- More input ports
 - DVIx2, HDMIx2, DP(4Kx2K)x1, SDI(3G SDI)x1, 2 Extended 2K Inputs(VGA, DVI or SDI), Or one 4K extended input (DP 1.1,HDMI 1.4 optional)
- EDID management
 - User-defined input resolution for DP, DVI, HDMI and VGA.
- Rotary output
 - Splicing after rotary output
- DP loop
 - 1 DP loop (for any input signal)
- User-defined output resolution
- 🌈 Image crop
- Task manager
- Internal graphic card for testing
- Computer host control
- Preview switching
- USB upgrade
- Low latency(16ms@60Hz)
- Serial port for future developing



1--Screen

The screen tells the current operating details. On default mode, press "OK" or rotate the knob to enter the main menu, where 16 options are shown on 4 pages.

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.

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.

2--Operating Keys

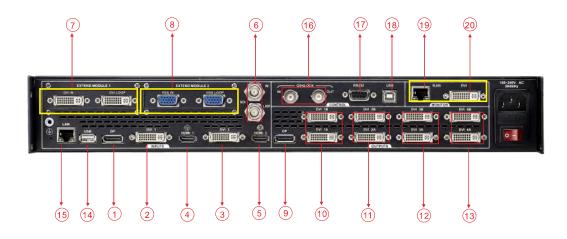
Selecting or setting operations will be done with "OK", "OK"and the knob. " " is for entering the menu or confirming any setting. "5" is for backward. The knob is for selecting or setting.

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.

6--TAKE Function

On switching mode, press "TAKE" to switch from preview to program.



1--DP input

5--HDMI2 input

9--DP loop

13--DVI4 output 17--RS 232 control port

2--DVI1 input

6--SDI input & loop

14--USB upgrade port

18--USB control

3--DVI2 input

7--Extended input 1

10--DVI1 output 11--DVI2 output

15--Network host control port

19--Input preview via IP

4--HDMI1 input

8--Extended input 2

12--DVI3 output

16--Genlock input & loop

20--DVI output monitor

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



VIDEO PROCESSOR MAG.750H

MAG.750H

Video Processor



LED-750H, a superior approach to better visual performance for LED walls. It is a $4K \times 1K/60Hz$ 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 $choose\ 2\ ports\ from\ VGA/\ DVI/\ SDI(SDI^*1)\ or\ 4K\ input\ DP1.1/\ HDMI\ 1.4. It\ accepts\ network\ linking,\ USB\ linking\ or\ RS232\ linking\ network\ linking\ netwo$ for different control demands.

- 2 2 screens splicing in 1 processor: 4 DVI output ports are divided into
 2 More input ports: DVIx2, HDMIx2, DP 1.1 x1, 2 extended 2K 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.

- 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.



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.

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.

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.

Operating Keys

Selecting or setting operations will be done with "OK", $\stackrel{\backsim}{\sim}$ and the knob. "OK" is for entering the menu or confirming any setting. \circlearrowleft is for backward. The knob is for selecting or setting.

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.

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.

MAG.550D VIDEO PROCESSOR

MAG.550D

Video processor



LED-550D series products are the video processor developed for the large screen display system, adopted the top image processing chips, internal 12 bits processing, with clearer images and richer colors. Advanced interlaced scanning picture processing technology, to remove video motion tail or flaw, for the normal PAL/NTSC video, output image will be clearer, for the HD 1080i signal, output image details will be rich, full color and image quality is in the leading level. Advanced image scaling technology, support user-defined output resolution, single unit can support horizontal resolution 3840 at maximum, vertical resolution 1920 at maximum, refresh frequency rate 120Hz, can upgrade the output signal bandwidth utilization greatly; furthermore, also can use the traditional standard output resolution, then scaling the output image by pixel to pixel according to the real size of the LED screen.

Accurate dual picture input image intercepting function, can realize the pixel to pixel display and material fusion. Intellectualized large size LED screen seamless splicing technique, the user just needs to have simple setting, they could realize that to send card picture splicing, can support 24576x24576 lattice LED screen; Unique synchronized moving technology, ensure high speed motion picture fluently without tail or flaw. Perfect video image input port, including 2xVGA, 1 xDVI (can be extended for 2 DVI simultaneous input), 1 xHDMI, 2xvideo (PAL/NTSC), 1 xSDI (optional), 1 xUSB(optional), support full HD signal input, can be connected with various audio and video equipment. Support seamless switch between different input signal sources and picture in picture function. The whole unit is with pure hardware framework, steady and reliable.

- Customized output resolution
- Seamless splicing
- Seamless switching,up to 20 switching effect
- Fade in/fade out
- Dual image
- Dual channel image crop
- Test overlay
- Image freeze
- DVI loop
- Support USB disk play (MOV, MP4, MKV, 3GP, AVI)
- Image size, position any adjustme

- Save and load mode
- Customized DVI input resolution
- Various test graphic cards
- Accurate brightness control
- Hot backup
- 7 7 inputs(2 AV, 2VGA, 1DVI, 1HDMI, 1DP)
- Image enhancement
- 1 expanded input(vga or dvi or sdi)
- Upper computer software control
- Support DP input



1--The menu display:

The entire menu, in the condition that no user operating or overtime operating, the LCD screen will show the default state, to operate the menu system by using knob and keys, the user can check and set the basic function and state of device intuitively.

3--Function button:

It contains four buttons:PIP, PART, AUTO and MODE。PIP:Open or close the function of PIP, if you long press the button, it will change the cascading relationship between image 1 and image 2.;PART: Switch part and full;AUTO: Automatically rectify the image display position when the current input source is VGA. MODE: Select the model loading interface

5--TRANSITION area:

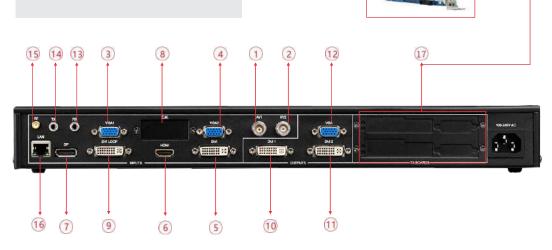
Press "TAKE" or "EFFECT" key, in the default menu system state, can call out image switch interface. In the image switch interface, TAKE key is used to implement image switch function, EFFECT key is used to select image switch effect: short press EFFECT key can make the effect parameters positive change, long press EFFECT, it will make the effect parameters reverse change.

2--Operation Keys:

It is used for menu selection and adjustment, makes up of "OK" key, "Return" key and a knob that can be press down, press the knob in a short time, it has the same function with confirmation key, while press it in long time, it will make the menu system return to default state at once. When u press the return key, the menu system will return to previous menu, until to the default state.

4--INPUTS area:

In the default menu state, short press the area buttons can switch the image 1 input source to the corresponding input; if long press the button, it will switch the image 2 input sources to the corresponding input. In the main menu, when select the input source interface of image 1 and 2, short press the area buttons, you can set the corresponding menu item parameter to the corresponding input port.



- 1--AV 1 input
- 2--AV 2 input
- 3--VGA 1 input
- 4--VGA 2 input
- 5--DVI input
- 6--HDMI input
- 7--DP input
- 8--Expanded input
- 9--DVI loop
- 10--DVI 1 output 11--DVI 2 output
- 12--VGA output
- 13--Cascade input
- 14--Cascade output
- 15--RF remote control
- 16--LAN

17--Sending card plugs

MAG.F4 VIDEO PROCESSOR



Magnimage MIG-F4 is a new video box for quad outputs mosaic application. With DP and HDMI inputs, it supports up to 4K*2K@60 Hz 4:4:4 or 8K*1K@60 Hz format source. Its smart control and auto-backup management is a great solution for different big screen project.

□ **Features**

- ∠ Quad outputs mosaic
- ∠ 2 DP & 2 HDMI inputs
- ∑ Support 8K x1K@60Hz input
- ∠ EDID management
- C Customized output resolution
- $oldsymbol{\mathcal{D}}$ Up to 9 million pixel resolution processing capacity

- Input signal backup
- Multiple cascade mosaic
- ∠ Save/load preset
- Edge blending
- Wi-Fi hot spot



- 1 Output status indicators
- 2 System status indicator
- 3 Wi-Fi indicator

- 4 Output synchronization indicator
- 5 Input status indicators





- 6 Output 1-4
- 7 Power switch and port
- 8 HDMI 1-2 input
- 9 DP 1-2 input

- 10 USB port
- 11 Wi-Fi switch
- 12 Reset and upgrade

Control mode

PC software: connect MIG-F4 with PC by USB cable. All the settings are done via software.

Android APP: connect MIG-F4 with Android phone by Wi-Fi. All the settings are done via APP.

Operating interface





PC software

Android APP



MAG.F4-1U 4K Video mosaic box



Magnimage MIG-F4-1U is a new video box for quad outputs mosaic application. With DP and HDMI inputs, it supports up to 4K*2K@60 Hz 4:4:4 or 8K*1K@60 Hz format source. Its smart control and auto-backup management is a great solution for different big screen project.

□ Features

- Quad outputs mosaic
- ∠ Support 4K*2K/60 Hz 4:4:4 input
- ∠ 1 DP & 1 HDMI inputs
- ∑ Support 8K x1K@60Hz input
- EDID management
- ${\it L\hspace{-.05in} C}$ Customized output resolution
- \mathcal{L} Up to 9 million pixel resolution processing capacity

- Input signal backup
- ∠ Multiple cascade mosaic
- Save/load preset
- ∠ Image crop, layer zoom
- \mathcal{D} Edge blending
- Wi-Fi hot spot

Front and rear panel



- 1 Output status indicators
- Output synchronization indicator
- 2 System status indicator
- Input status indicators
- 3 Wi-Fi indicator



6 Output 1-4

10 USB port

- Power switch and port
- HDMI 1 input
- 9 DP 1 input

- Wi-Fi switch
- Reset and upgrade

Control mode

PC software: connect MIG-F4-1U with PC by USB cable. All the settings are done via software.

Android APP: connect MIG-F4-1U with Android phone by Wi-Fi. All the settings are done via APP.

Operating interface



Android APP

MAG.C2000 Video Server



Mig-C2000 is a new developed multimedia server with powerful function and stable performance. Adopt high performance CPU, mainboard, memory, power supply and other hardware, which supports three 4K×2K@60Hz videos or six 4K×2K@30Hz videos played smoothly while ensuring a steady working status.

With MIG-C2000 Series you can select G4 or Creator R6 media software, which supports multi-layer input, unlimited scenes, preview switching, arbitrary scene jumping, special effect layer, time task function, real-time monitoring system information, multiple machine cascade control and external controls etc.

Strong video decoding capability, which can do 3 channels of 4K×2K@60Hz output, it is applicable for big resolution pixel to pixel display. The simple and convenient operation brings great improvement of work efficiency for the majority of industry personnel.

- One key setting output
- Support playback of audio, video and picture files in various formats
- Virtual amplification of output port
- Virtual screen
- Arbitrary scene jumping
- Communication protocol
- MIDI keyboard, PC keyboard and MIG-EXK200 keyboard external control
- Shortcut playback
- Backup function of host and standby machine
- Downward compatibility of software documents
- PPT supports WPS and Office
- ∠ Left and right channels, stereo channels
- ${\cal D}$ Customize beginning and ending time of audio and video
- ${\cal L}$ Layer properties polygon effect
- Spout input/output
- Custom scene layer template
- Layer arbitrarily marshalling

- HAP Q code, built in transcoding tool
- Continuous scenes loop playback, layers can be played in sequence
- Automatic software update
- Drag files and folders in signals list
- Change playback time in batch
- OSD subtitile scrolling and background customization
- Artnet protocol control,OSC protocol control
- Support HDR video playback
- \mathcal{L} Support hardware decoding
- PPT turn-page function, support Cuelight flipper
- Support NDI aquisition box
- One key drop out, one key static frame
- Custom duration of material (except video)
- Custom layer mask
- Main KV switch
- One key lockdown software
- Preview switching
- ${m \it L}$ Real-time monitoring system information
- Time task function

D Panel Introduction





MAG.MS400

Multimedia Server



MIG-MS400 series is a new developed multimedia server with powerful function and stable performance. Adopt high performance CPU, mainboard, memory, power supply and other hardware to ensure a steady working status.

Built in with media server software, which supports multi-layer input, unlimited scenes, preview switching, arbitrary scene jumping, special effect layer, time task function, real-time monitoring system information, multiple machine cascade control and external controls etc.

A variety of output port types with diversified choice, DP, HDMI, DVI supported.

Strong video decoding capability, which can do 4 channels of 4K×2K@60Hz output, it is applicable for big resolution pixel-to-pixel display. The simple and convenient operation brings great improvement of work efficiency to the majority of industry personnel.

Features

High-performance

Multiple output cards can be selected(DP1.2, HDMI2.0, DVI), support pixel-to-pixel display in $8K\times4K/60Hz$ range

Local monitoring output×1

Audio isolation output

Integration of playing and splicing

Management of video, picture, audio, subtitle, PPT and other local media resources

Support capture card, NDI, IP streaming media, spout and other external signal acquisition

Internal infinite layer processing, unlimited windows on the screen, support layer rotation or special-shaped processing

Multi scene management: support scene sorting, naming, arbitrary jump, etc, support fade in and fade out or instant switch

One machine can control, play, and preview the local and collected pictures in real time

 $8K\times4K/60Hz$ (HAP) large video decoding, support the mainstream video decoding format

Harware decoding and HDR

Convenient operation

Virtual enlargement of output port, convenient point-to-point windowing, no need to calculate window proportion

Automatic update and simultaneous playback of main and standby machine Built in transcoding optimization tool

Real time system monitoring, control the running state of equipment Shortcut playback

Multiple control method

PC keyboard & mouse, H8/H6 console, EXK200 keyboard MIDI,OSC,Artnet,TCP/IP protocol control

More features

Support audio and video, picture playback time setting Support the adjustment of image clipping, feather, brightness, contrast, mirror image and other parameters

Pre-monitoring switching

Time task function

Virtual screen setting: cutting and recombining materials

One key drop out, one key static frame

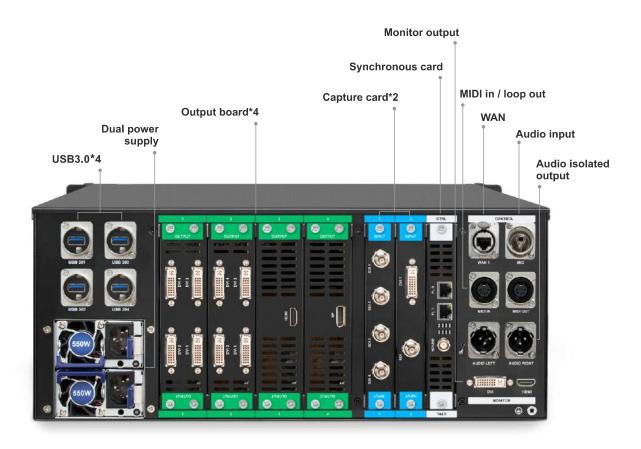
Layer arbitrarily marshalling

Multiple machine cascade control

Genuine system, server motherboard and $\ensuremath{\mathsf{CPU}}$

Panel Introduction





^{*}Input board supports DVI/HDMI2.0/DP1.2, DVI mixing with other output boards is unsupported.



CREATOR R5 MEDIA SOFTWARE

CREATOR R5 MEDIA SOFTWARE



Magnimage CREATOR R5 is a media software which is created for conference, live show, rental event, stage performances and creative display. There are many key features in the software, such as maximum 2 channels of 4K*2K output, unlimited layers and scenes, scenes switching preview, customized scenes loop playback, real-time preview of a single layer, built-in multiple test patterns and effects etc.

When using R5, you will enjoy its play management and powerful decoding capacity, which will greatly elevate the work efficiency for the technician staff.

□ Features

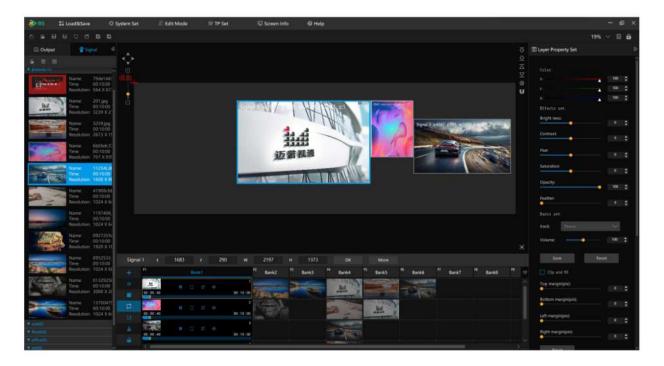
- D Output virtual magnifying function
- ∠ Left & right audio channel, stereo playback
- ☑ Continuous scenes loop playback
- Automatic software updates
- ☑ Video info list and coding format
- Effect template
- ☑ Free switching of unlimited scenes/layers
- Integrated play &control design, control, monitoring, output--all in one

- ∠ Support video, picture, NDI, online video inputs
- Any degree rotation
- ∠ Capture multiple real-time camera signal
- Page flip for PPT
- ☑ One-key frame still
- Scene copy
- Arbitrary grouping for layers

Main features and application

The user-friendly interface

On CREATOR R5's interface, you can access to all the functions and video's output port via its simplified design. Meanwhile, it supports console control and any video format decoding.



Support various video formats and capture card function

All playback material formats are compatible, including video, audio, picture, PPT, OSD, NDI and network video. It also supports capturing multiple camera signal and PPT page flip for different playing demands.



LED-T16S-A LED Controller

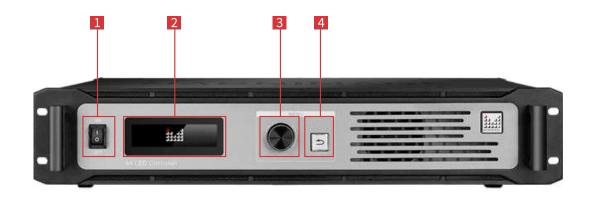


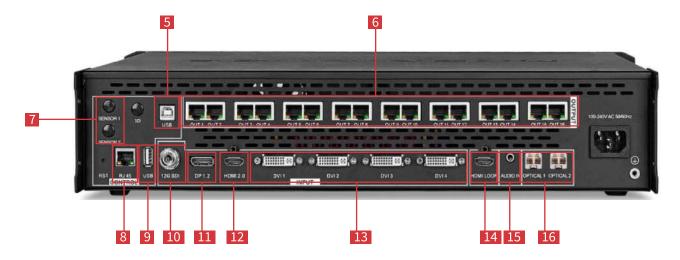
LED-T16S-A is a LED controller developed by Magnimage, input support 4x DVI, 1x DP1.2, 1x HDMI2.0, 1x 12G SDI(optional), 1x 3.5mm audio.Output support 16 x Gigabit Ethernet ports, 1x HDMI-Loop. Besides, it also supports 2 sensor interface, can be connected with external sensor, and expansion of 10G Optical fiber input / output.

Support Magnimage receiveing cards: LED-M8S, LED-M12S, LED-M16S, LED-M28S, LED-M60S, LED-M70S, LED-M80S, LED-M52S, LED-M62S, and used with CLINK software.

- Support 4K and DVI modes
- ✓ The maximum loading capacity is 10,400.000 pixels.
- Support free cable-connection, each signal cable can loading the actual number of the pixels, folding or empty space do not take up the capacity.
- Support 8bit / 10bit video source and HDR10.
- Support low latency display.
- Support pixel by pixel calibration.
- Support light and dark line repair.
- Support USB and Ethernet port communication modes.

- Support LCD panel display, knob, button operation, can light up the screen through the device directly.
- Support online naming of devices, when multiple devices are connected, they can be named according to the each screen.
- Support smart label sequence, which can directly display the Ethernet port and serial number of each receiving card on the LED panel.
- Support one-key Ethernet port backup (8 main and 8 backup) and device mutual backup (1 main and 1 backup).
- Support extended 10G fiber input/output.





1--Power Button: On/off Press to power on or off the device.

2--LCD screen: Display screen information and operation interface.

3--Function knob:

1. Press the knob to enter the lower menu or adjust parameters.

2. Rotate the knob to select a menu or adjust.

4--Square USB: Connect to PC, USB control interface.

5--Back: Return to the previous menu or exit the current operation.

6--OUT1-16: 16 Gigabit Ethernet port output. The maximum loading of a single network port is:

-When the input source is 8bit, 650,000 pixels

-When the input source is 10bit/12bit, 320,000 pixels

-Support redundancy between Ethernet ports

7--SENSOR: Two sensors can be connected (optional)

8--100M Ethernet port: Connect to computer, Ethernet port control interface

9--Flat USB: Used to upgrade the machine program.

10--12G SDI: 12G SDI video signal input interface (optional).

11--DP1.2: DP1.2 video signal input interface.

12--HDMI2.0: HDMI2.0 video signal input interface.

14--HDMILOOP: HDMI loop out (only HDMI2.0 or DP1.2 signal can be looped out).

15--AUDIO: Audio input interface, 3.5mm audio port.

13--DVI1-4: When DVI1-4 is selected as input, each DVI channel is a regular 2K input: 4 DVI channels independent input: support independent input custom resolution settings.

Support preset resolution: 2304*1152@60HZ 2048*1152@60HZ 2048*1080@60HZ 1920*1200@60HZ 1920*1080@60HZ 1680*1050@60HZ 1600*1200@60HZ 1440*900@60HZ 1360*768@60HZ 1280*1024@60HZ 1280*720@60HZ 1024*768@60HZ Support EDID to maximum width: 3840 pixels Maximum height: 3840 pixels

16--OPT1-2: (Optional) 10G optical fiber interface:

1: Optical fiber input, a set of two, 2: Optical fiber output, a set of two,

In DVI mode, the fiber input signal source can be used, and the fiber output can be looped out to the next device for device cascade.

In 4K mode, the fiber input signal source can be used, and the fiber output can be looped out to the next device for device cascade.

LED Controller



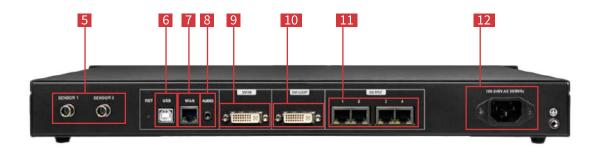
LED-T4S is one of the biggest resolution capability controller, which support $1 \times DVI$ input, $1 \times audio$ input and $4 \times LAN$ output. A single network port loading 650,000 pixels, total loading 2,600.000 pixels.

Support to control receving card: LED-M8S, LED-M12S, LED-M16S, LED-M28S, LED-M52S, LED-M62S, used with CLINK is the software.

- 1×DVI video input and DVI LOOP output, support HDMI 1.4.
- 1×audio input
- 4×LAN output
- Support high bit video input
- Support both USB and LAN control, uniformly manage multiple machines under local area network, or controlling by connect router to achieve wireless control.
- Support various resolution: 1024×768, 1280×1024, 1366×768, 1600 ×1200, 1920×1080, 2048×1152, 2560×960, support input resolution costomized, the Max. width 4096, the Max. height 4096.

- Single sending card loading up to 2,600.000 pixels. Single network port loading 650,000 pixels, support loading capacity expansion function, after turned on the function, the single port can loading up to 1,000.000 pixels and a single sending card can loading up to 4,000.000 pixels.
- Support free cable-connection, each signal cable can loading the actual number of the pixels, folding or empty space do not take up the capacity.
- Support to control receiving card: LED-M8S,LED-M12S,LED-M16S,LED-M28S,LED-M52S,LED-M62S





1--POWER: On/off Press to power on or off the device.

2--Power indicator light: always light means power supply is on, no power connected, it will be light off.

3-- DVI signal indicator light: DVI signal received it will light on, no signal , it will be light off.

4--Status: ast flash one timeif have any manual operation.

5--SENSOR: 2 channel sensor can can be extended.

6--USB: Connected to PC USB port, via USB cable to control the sending card.

7--100 megabits Ethernet port: Connected to pc Lan port, via Lan cable to control the sending card.

8--AUDIO: Audio input port, 3.5mm audio port.

9--DVI: DVI signal input port

10--OUTLOOP: DVI loop output port: loop out the DVI input signal.

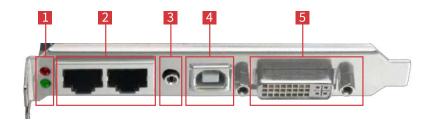
11--OUT1-4: 4 channel network output ports, red light means power on, green light blinking means work normally, steady green light means sending card and receving disconnection.



LED-S200 is the basic series seinding card which developed by Magnimage, a single por can loading up to 6500.000 pixels, total loading capacity up to 1.300.000 pixels.

Support Magnimage receiving card: LED-M8S, LED-M12S, LED-M12S, LED-M28S, LED-M52S, LED-M62S, used with CLINK software

- DVI video input × 1
- Audio input × 1
- Dual network port output
- USB port communicate multiple sending cards can be cascaded on the same PC.
- Support various resolution 1024×768,280×1024,136 6×768,1600×1200,1920×1080,2048×1152,2 560×960 and input resolution customized, the Max. Width 4096, Max. Height 4096.
- Single sending card loading up to 1,300.000 pixels. Single port loading 650,000 pixels, support loading capacity expansion function, after turned on the function, the single port can loading up to 1,000.000 pixels and a single sending card can loading up to 2,000.000 pixels.
- Support free cable-connection each signal cable can loading the actual number of the pixels, folding or empty space do not take up the capacity.





1--Communication light: Network port communication light. Green light flashing means normal communication, green light is always on means disconnected, red light is power indicator light, alwaus light means power supply is normal.

2--Network port P1/P2: Dual network port output.

3--Audio port: Audio input port.

4--USB: Square USB, USB communication port to connect PC

5--DVI: DVI video input interface.

LED-F716

All-in-one Video Controller



LED-F716 is one of Magnimage's all-in-one 4K type video controller ,which is specially designed for 4K fix installation solution,It has abundant input interface: 1Xhdmi2.0, 1Xdp1.2, DVIx2,1x Audio, and extender module (1x SDI,HDMI2.0+DP1.2, 2x DVI), Output has $16 \times \text{Neutrik}$ Gigabit Ethernet ports and $2 \times 10G$ optical ports.1x hdmi Loop, 1xHDMI monitor,10.4 million Pixels Resolution capability, max width 8192,max height 3840, Per Lan port can achieve 1 million pixels if works with Magnimage's bandwidth extended series receving card, and total max pixels capability can achieve 16 million (60Hz) after bandwidth extended.

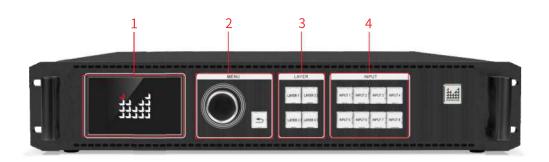
LED-F716 support quick screen configuration without pc software. Make configuration more easy

Featured Functions

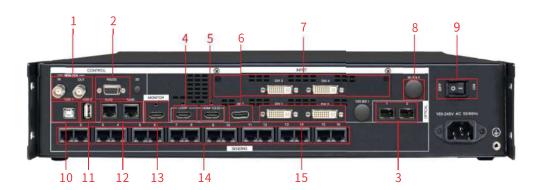
- *I* support quick screen configuration without pc software
- Z 16 × Neutrik Gigabit Ethernet ports, customized output resolution
- Input EDID management
- Dp 1.2 input support 4K*2K/60Hz & 8K*1K/60Hz, HDMI 2.0 support 4K*2K/60Hz
- 4 layers, free sizeable and positionable
- Z Support Bandwidth extended technology
- Z Suport mark number for receving card
- Preset save and load
- Multiple units can be cascaded together for uniform control, multipe input cacade
- Support lan port backup or Multiple unit backup
- Support input hot backup
- Input and preset fade switching
- Support Scrolling text function

- arnothing Support USB configuration file read and load
- Lan port controlling with Loop port, for multiple unit config
- Custonised Input &Output resolution
- Support Image zoom and Crop
- Support output monitoring
- Support senior cabling
- ✓ Free cabling
- Smart mark Number
- Optic port backup
- Support Audio input
- ✓ Support RS232 control, Command control
- Z Time task function, brightness changing

C Controller Introduction



1 LCD screen, Show the Menu 2 Rotary knob 3 Layer selecting Bution 4 Input source selecting button



- 1 Genlock Input/output 2 RS232 control 3 2 × 10G optical ports. 4 HDMI loop port
- 5 HDMI 2.0 input 6 DP1.2 input 7 DVIx2/HDMI2.0+DP1.2 extender module 8 3G SDI extender module
- 9 Power Button 10 USB control port 11 USB load & export & update 12 Lan port control
- HDMI monitoring 14 16× Neutrik Gigabit Ethernet ports 15 2 X DVI input

LED-F710 Video Controller



Overview

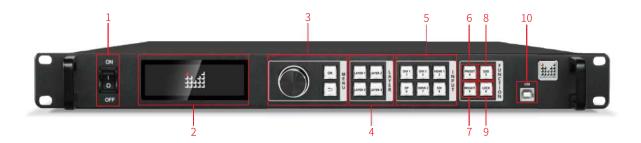
LED-F710 is a video controller that integrates video processor and sending card function. It has a variety of video image input interfaces, including HDMI2.0*1, HDMI1.4*1 (built-in audio function), DP*1, DVI*2, SDI*1 (LED-710S), and one audio input. The output supports 10 ports of gigabit Ethernet, HDMI LOOP*1, DVI*1 (monitor) and one audio output. the standard loading capability is 6.5M pixels, maximum loading capability is 8.8M pixels, maximum width can be 7680 and maximum height can be 2600, and support customized output resolution. It supports bandwidth expanding technique, the loading capability of single port can reach 1M pixels (60Hz) after switched on the function.

LED-F710 support the function of quick light-up screen without computer software connection, greatly simplify the setting steps.

- Quick light-up screen, no need computer software connection
- 10 channels gigabit Ethernet output, support customized Output resolution
- Input EDID management
- Support 4K*2K/60Hz(HDMI 2.0) input
- Support layer size and position adjustment and image crop
- 4 layers display
- Support scrolling caption
- Support bandwidth expanding technique
- Support serial number calibration for receiving card

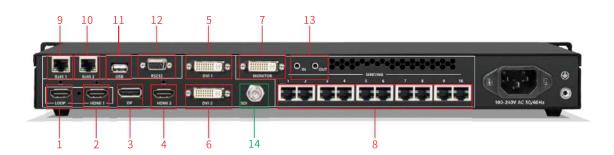
- Cut switch among signals with no black
- Free cable connection
- Seamless switching among multiple layers
- Free image zooming
- Monitoring output
- Save and load template
- Support external independent audio input/output
- Support connection with C-Link series receiving card
- Support network interface communication, wireless
- Control screen

Panel Introduction



- 1 Power switch
- 4 Layer selection button
- 7 Brightness adjustment button
- 10 USB control port

- 2 LCD display
- **5** Input signal selection button
- 8 Layer size/position adjustment button
- 3 Rotate/OK/Return button
- 6 Preset button
- 9 Lock button



- 1 HDMI LOOP output
- 4 HDMI 1.4 input
- **7** DVI monitor output
- 10 Control LAN Port 2
- Audio input/output

- 2 HDMI2.0 input
- **6** DVI1 input
- 8 10 channels gigabit Ethernet output
 9 Control LAN Port 1
- 1 USB upgrade port
- SDI extended input port

- 3 DP1.1 input
- 6 DVI2 input

- PRS232 control port

LED-M70C/60C/650C

Mini Series Receiving Card

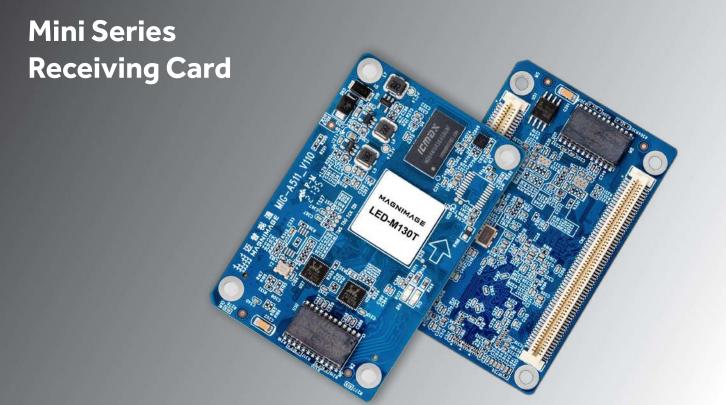


LED-M36T/M35T

Mini Series Receiving Card



LED-M130T/100T



LED-M8T/12T/16T/28T

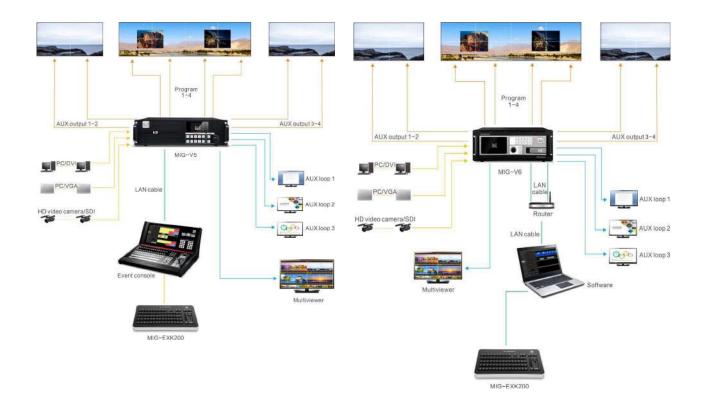
Sapphire Series Receiving Card

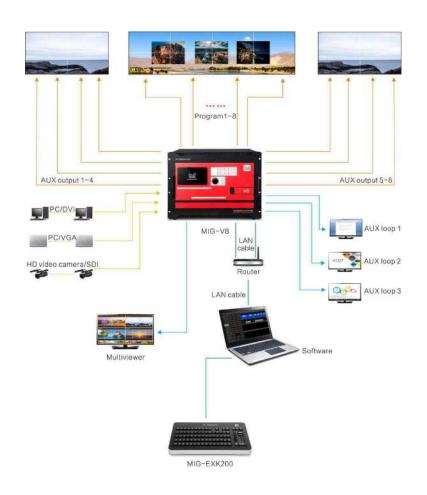
















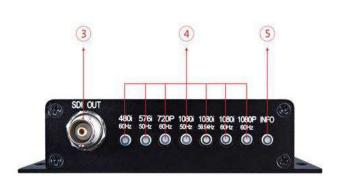
- 1 SDI Input
- 2 DVI Output Format Select Button
- 3 SDI Input Format Display
- 4 Audio Output











- Audio Input
- 2 DVI Input

- 3 SDI Output
- SDI Output Format Select Buttor

5 DVI Input Format Display







- 1 Entrada de SDI
- 2 Salida de SDI Loop
- 3 Entrada de HDMI
- 4 Salida de SDI

- 5 Salida de SDI
- 6 Salida de HDMI



NOTES







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