MIG-MS400 Series
Multimedia Server

MAGNIMAGE

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×4K / 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×4K / 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
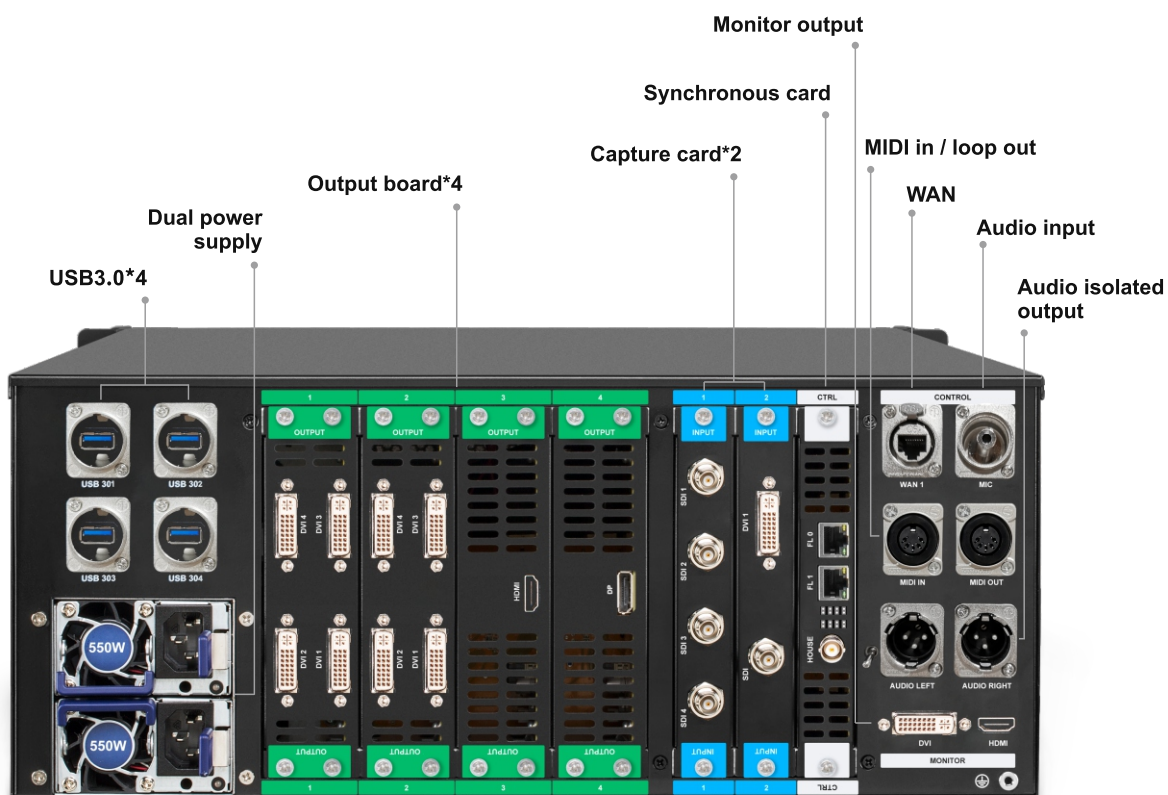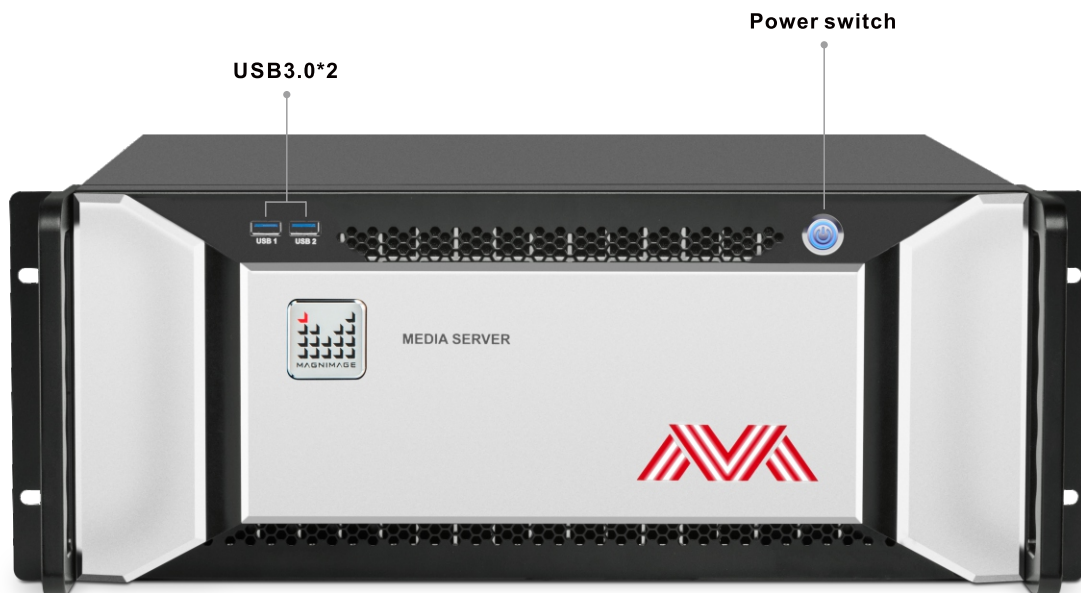Real time system monitoring,control the running state of equipment
Shortcut playback

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
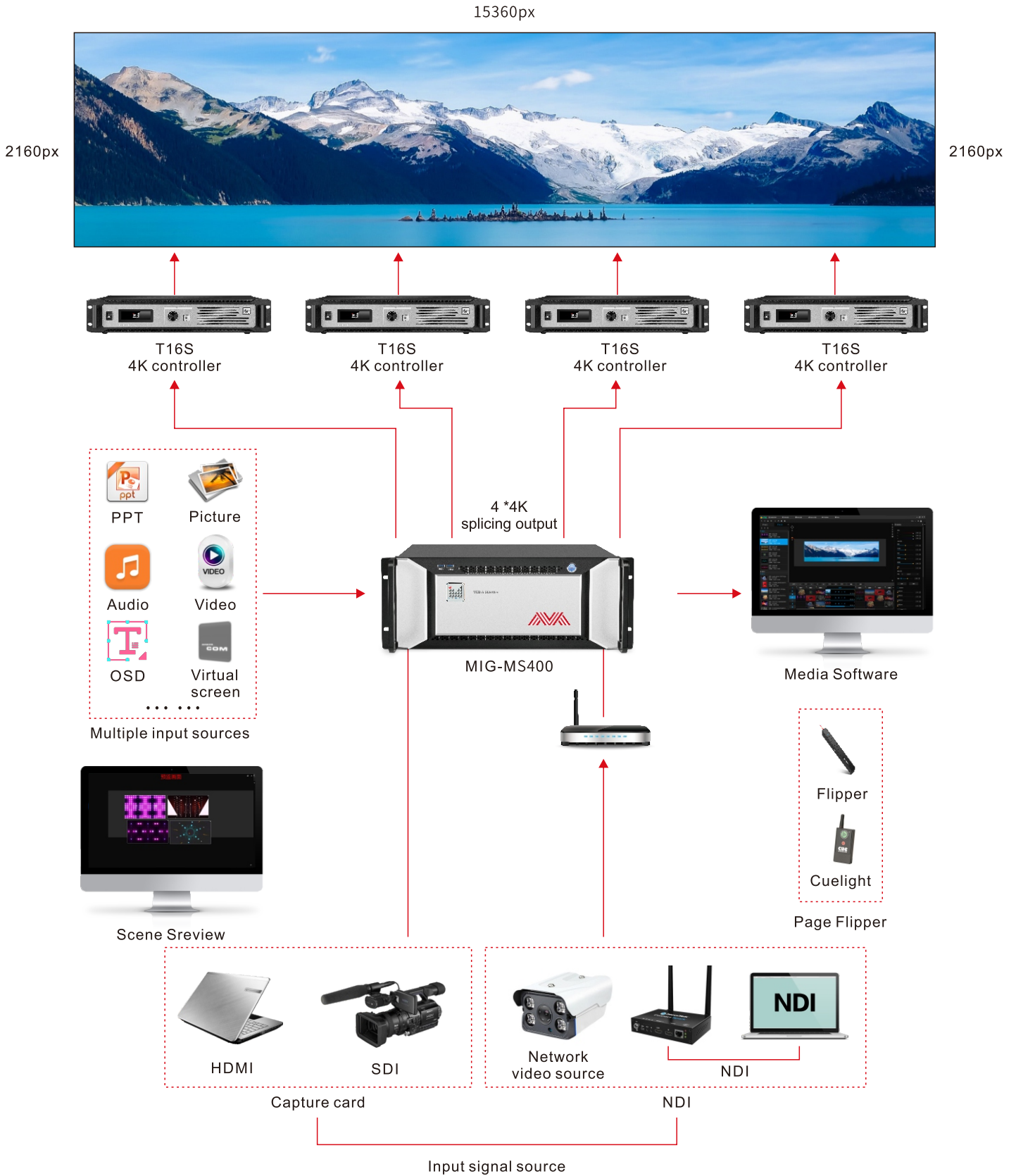Multiple machine cascade control
Genuine system, server motherboard and CPU

◫ Panel Introduction

USB3.0*2

Power switch

Monitor output

Synchronous card

Capture card*2

MIDI in / loop out

WAN

Audio input

Output board*4

Audio isolated output

Dual power supply

USB3.0*4

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

🖵 4K×4 or 2K×16 channels of splicing output, pixel-to-pixel splicing in 16K×2K range

15360px

2160px   2160px

| T16S | T16S | T16S | T16S |
| 4K controller | 4K controller | 4K controller | 4K controller |

Multiple input sources
- PPT
- Picture
- Audio
- Video
- OSD
- Virtual screen
- • • • • • •

4 *4K
splicing output

MIG-MS400

Media Software

Scene Sreview

Flipper

Cuelight

Page Flipper

Capture card
- HDMI
- SDI

NDI
- Network video source
- NDI

Input signal source

▢ Humanized Design, Convenient Operation

Media Software has user-friendly design of the operation interface, users can quickly get familiar with every function, it can be automatically list all video output ports of the running host machine, support console control and free-form decoding.
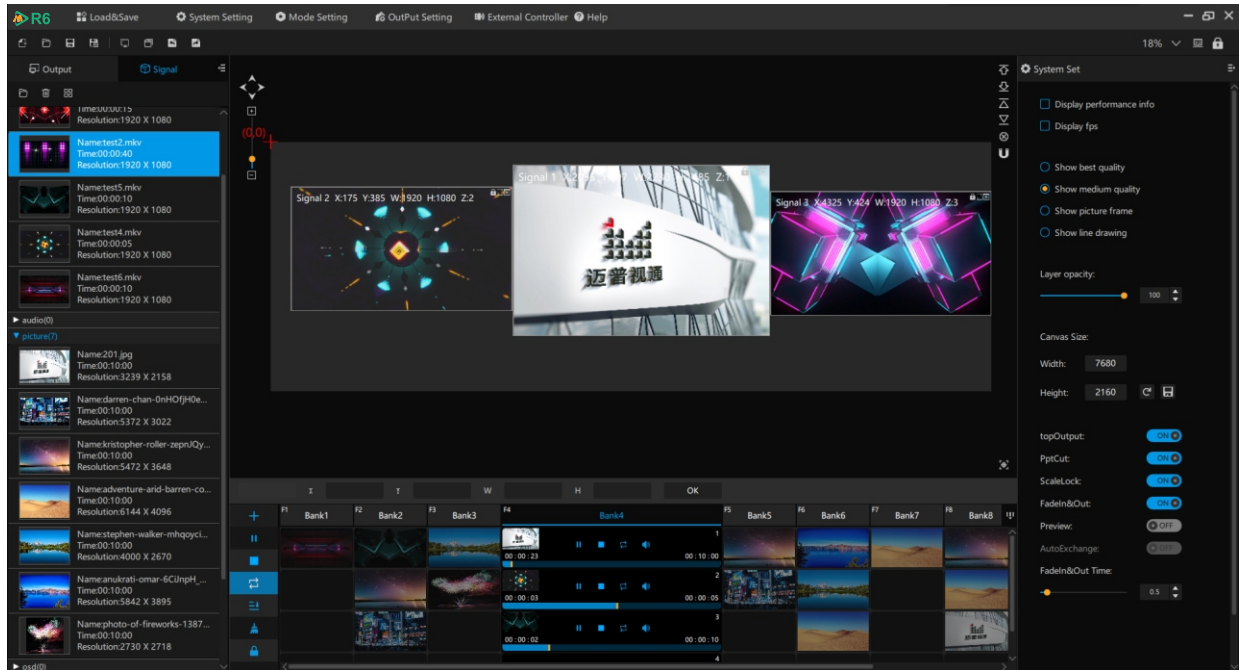

▢ Rich video source and capture card functions

Compatible with all current playback material formats, including video, audio, picture, PPT, OSD, NDI and network video source material. Support the simultaneous acquisition of multiple camera signals, PPT page turning function, to meet the different control needs.

◻ Fast editing, powerful function

Using picture editing and layer mode operation, fast and accurate editing, preview and positioning of various video sources, it supports color adjustment, image setting, special-shaped editing, angle selection and other functional settings of the video screen.
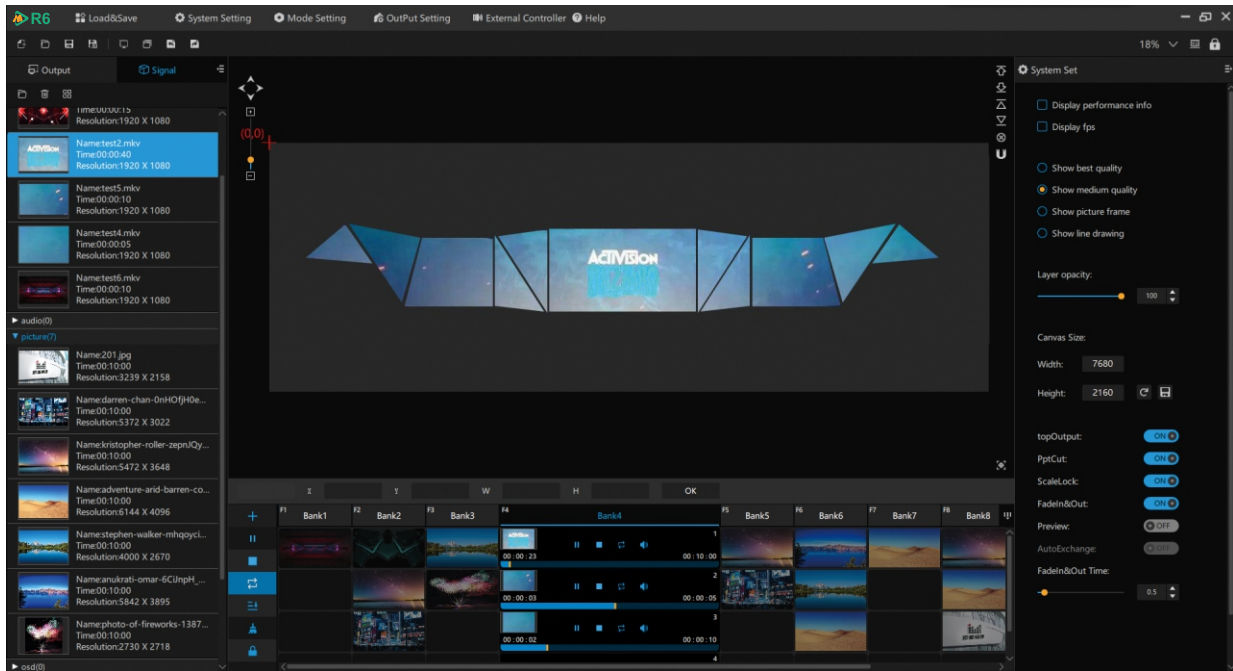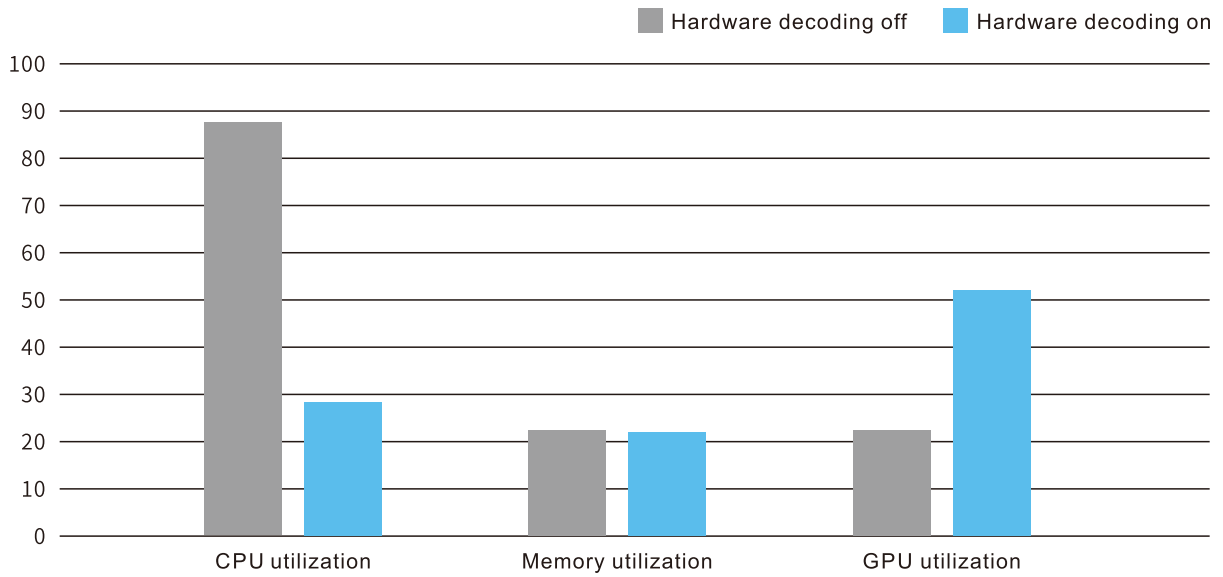

◻ Real-time preview function

It supports the real-time preview function for video playing, which helps you preview the video picture quickly and accurately.

⬦ Main Features and Applications

⬜ Hardware decoding

Reduce CPU pressure by GPU decoding, to improve the computer operation fluency and prevent play jam.

Legend: ▮ Hardware decoding off ▮ Hardware decoding on

Chart values (approximate, axis 0–100):
- CPU utilization: Hardware decoding off ≈ 88, Hardware decoding on ≈ 28
- Memory utilization: Hardware decoding off ≈ 22, Hardware decoding on ≈ 22
- GPU utilization: Hardware decoding off ≈ 22, Hardware decoding on ≈ 52

⬜ HDR

No back-end device is needed to support HDR and HDR playback effect is achieved directly through media server software.

HDR on

HDR off

⬜ Real-time monitoring system status

Through the software real-time monitoring system running state to deal with the unexpected situation in time and ensure the stable operation of the software.

CPU utilization

Memory utilization

GPU 0 utilization

CPU temperature

GPU 0 temperature

◸ Main Features and Applications

▢ Timing switch

By setting the time task to play the specified scene content at the specified time.

Scene 1	Scene 2	Scene 3
09:00 am	11:30 am	17:40 pm

▢ Multiple control modes

It can be switched by means of communication protocol, MIDI, OSC, artnet, EXK200, etc. to facilitate centralized control.

LED Screen

Media Software

Communication protocol   MIG-EXK200   MIDI/OSC/ARTNET
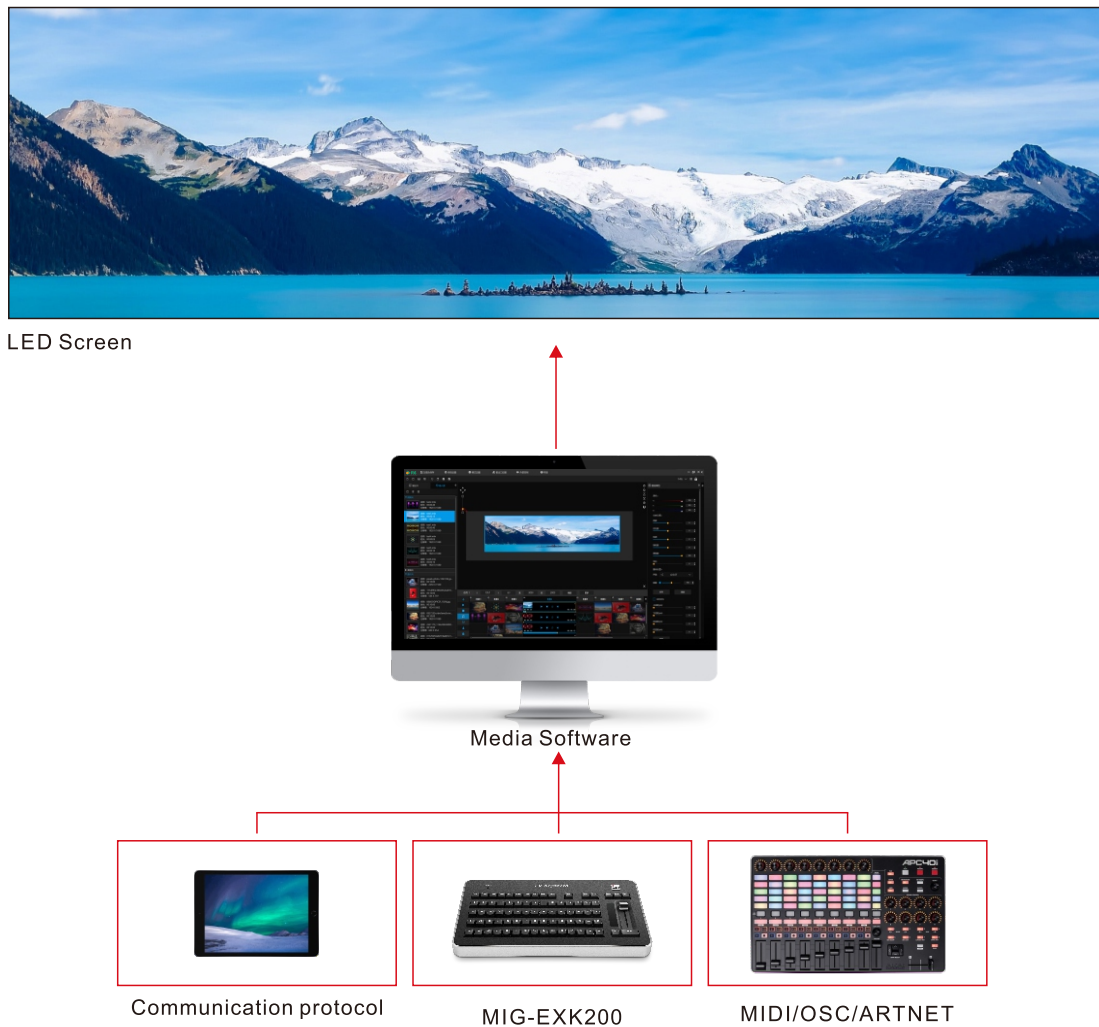
☐ **Technical Parameters**

Configuration (Standard)

Output	DP1.2×4 or HDMI2.0×4 or DVI-D×16	3840×2160/60Hz and custom or 1920×1080/60Hz and custom
Operation Interface	1×DVI-D+1×HDMI2.0	3840×2160/60Hz and custom or 1920×1080/60Hz and custom
CPU	Xeon W2225	
Memory	32G	
Disk	1T	
Graphics Card	P4000	
Operation System	Win10 Pro	
Media Software	Inbuilt video server series software	
Dongle	Inbuilt media software dongle	

Output Specification

Output model	Output port parameters	Single port output resolution	Mix and match of multi output board
MIG-C4000-OUTDVI	4×DVI-D	1920×1080/60Hz or custom，maximum width 2900 , maximum height 2160	Unsupported
MIG-C4000-OUTDP	1×DP1.2	3840×2160/60Hz or 7680×1080/60Hz and custom	Supported
MIG-C4000-OUTHDMI	1×HDMI2.0	3840×2160/60Hz and custom	Supported

Description of Capture Card

Entended module	Port	Quantity	Specification	Note
MIG-GA-CP1D	SDI+DVI	2	VESA/3G-SDI	A single module include 1*DVI+1*SDI, choose one to use
MIG-GA-CP2S	2×SDI	2	3G-SDI	2 ports can be used at same time
MIG-GA-CP2H	2×HDMI	2	HDMI 1.2	2 ports can be used at same time

Entended SSD

Entended module	Port	Specification
MIG-GA-M500	M.2 NVME	500G
MIG-GA-M1T	M.2 NVME	1TB
MIG-GA-M2T	M.2 NVME	2TB

Specification

Working voltage	100~240V 50/60Hz
Working humidity	30%-80%
Working temperature	0-40℃
Supported protocols	TCP/IP/UDP/IP
External control	MIDI/OSC/ARTNET/PC/EXK200
Chassis	4U
Weight	19.7kg
Power consumption	550W
Overall dimension(L*W*H)	652*438*178mm