MIG-EC90 Pro Series
All–in–one 4K switcher

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MIG-EC90 Pro is a video switcher which 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 browse 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.

Features

- Support 2 Program outputs (mosaic), 2 AUX outputs (mosaic)
- 4K*2K/60Hz Program and AUX output
- Customized input & output resolution
- 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
- Support save and load user preset up to 20
- Support touch screen, slide LOGO to unlock and enter menu
- T–bar switch

✏ Switcher introduction

Multi-view Monitor
Preview the inputs、presets and monitor the output.

Keypad
To change the layer's size, position and parameters.

The menu screen
It works with the mini-knob and lateral buttons to enter,exit,browse and configure all the settings.

Layer area
Button 1~6 correspond to 6 layers, buttons on the right help you change, delete, do full screen, chroma-key and set on thAe top or bottom for layers.

Background area

Switching area
Switch Program and Preview through T-bar,CUT and TAKE.Other buttons include black screen, freeze image and lock buttons.

Input area
Input sources selecting and EDID / crop setting.

Preset area
Button 1~20 refer to 20 userpresets, and the buttons onthe right help you save, load and delete these presets. Press the MAIN or AUX button to select the channel of the preset,and MAIN TO PVW and AUX TO PVW to copy the layer of Program output and AUX output to preview.

USB upgrade port

Genlock input & output

4K input port

Light interface and switch

Network control port
Program output 1

Multi-preview output

Program output 2

AUX output 1

AUX output 2

12G SDI input port

MIG-EC90 Pro series can be grouped into three categories:

MIG-EC90 Pro-A Input: HDMI2.0x4,DP1.2x2 12G SDIx2;

MIG-EC90 Pro-B Input: HDMI2.0x2,DP1.2x4,12G SDIx2;

MIG-EC90 Pro-C Input: HDM2.0x6.

The output configuration is fixed,MAIN and AUX outputs are all 2 main and 2 backup separately.

⟋ Main characteristics & application

▢ 4K inputs, and 4K outputs that support mosaic

MIG–EC90 Pro has 2 Program outputs and 2 AUX outputs, and all of them support 4K*2K/60Hz or customized resolution. The 2 Program outputs are able to be used independently or mosaic them to 8K*2K, as well as the 2 AUX outputs.

4K×2K   8K×2K   4K×2K

AUX output 1   Program output 1   Program output 2   AUX output 2

4K Independent Controller   4K Independent Controller   4K Independent Controller   4K Independent Controller

4K fiber-optic extender

Input

DP1.2、HDMI2.0、12GSDI
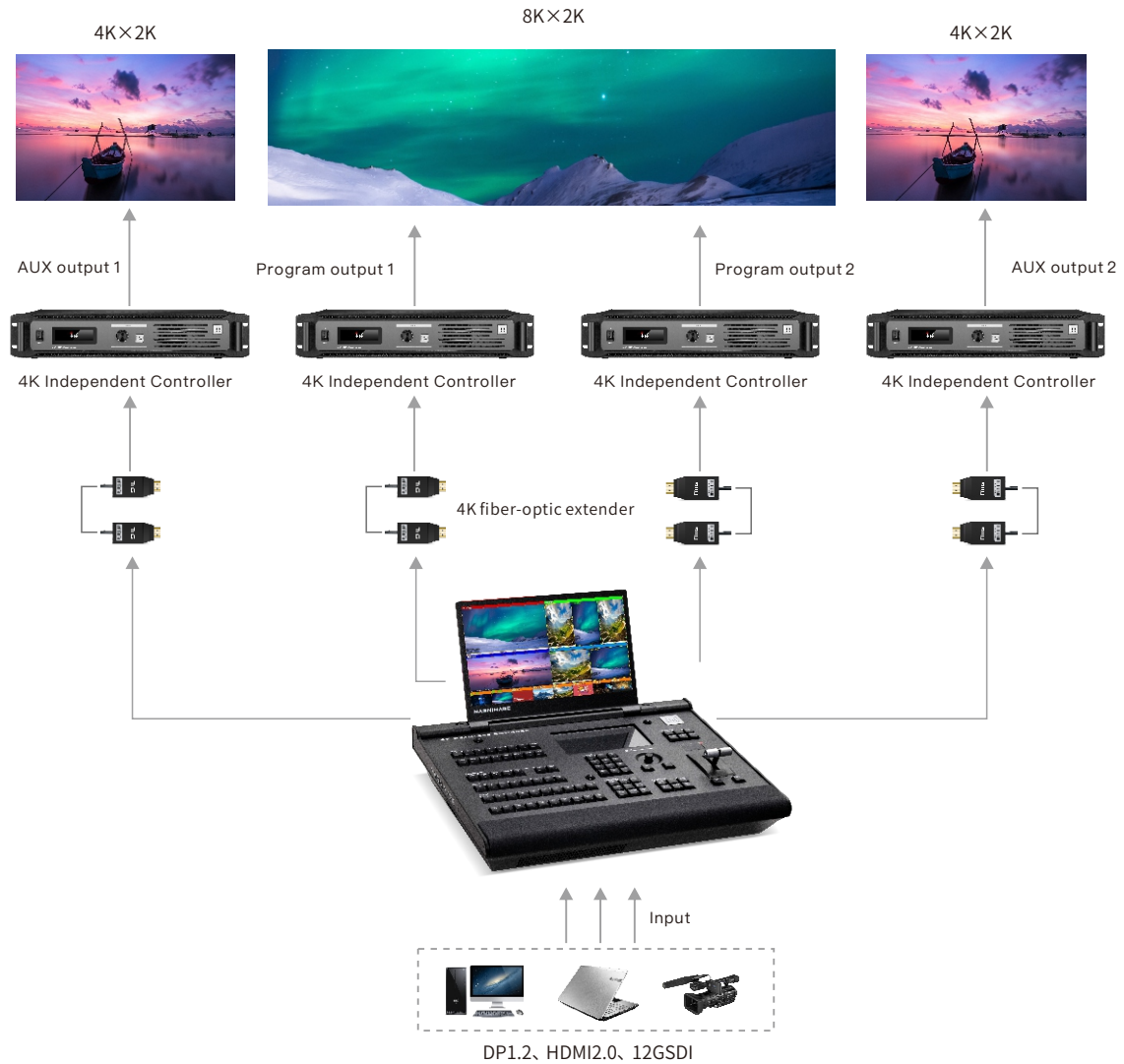
⬭ Main characteristics & application

⬚ Support Multi–layers, seamless switching

The program output support 6 independent layers, and the size and position of all layers can be set freely. For the AUX outputs, you can set independent displaying, or mosaic them to 1 full layer. Both Program and AUX output support fade in & fade out switching.

Fade switching among multi–layers of program output

8K

8K

2K

背景

2K

Program output*2

Input

4K DP&HDMI，12G SDI

AUX output×2

2K

2K

8K

4K

4K

Fade switching of AUX output
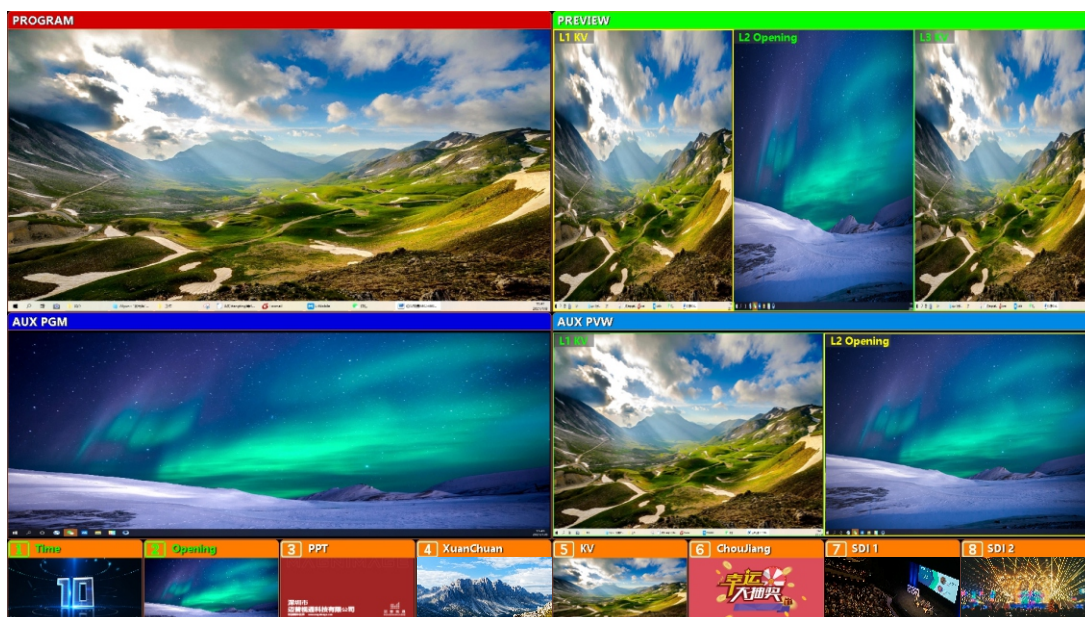
◿ Main characteristics & application

⬚ Support layer mirror, border and shadow effects

Program output support mirror, border line and shadow effects.


⬚ Inputs and outputs real-time monitoring

With the help of LCD monitor, this switcher offer you a real-time monitoring for all the inputs and outputs. It also allows you to rename all the input labels.

▢ Different choices of Multi—preview layout

There are 5 Multi—preview layout templates, and each template includes Program output, Program output preview, AUX output, AUX output preview and input sources, totally 5 sections. You can also customize the layout from size, position and on/off.
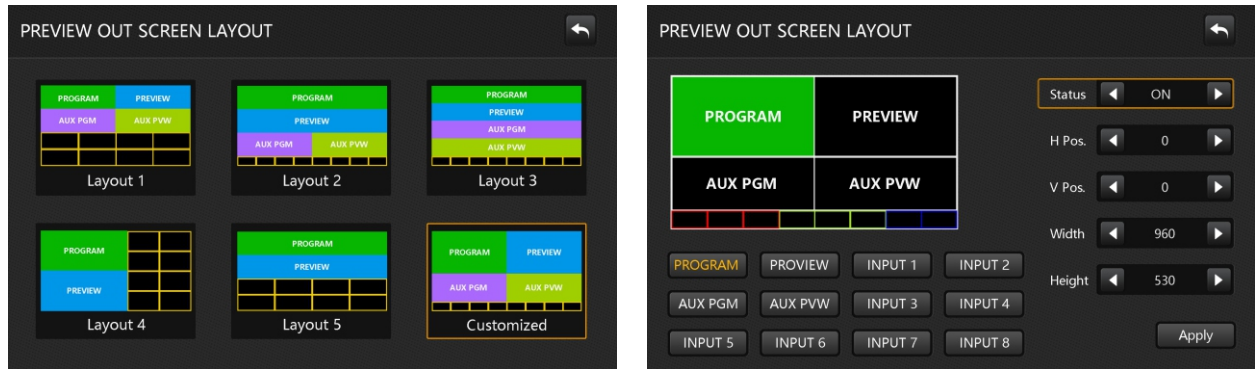

▢ 12G SDI input

Support 12G SDI input, can be able to lossless transmit standard 4K@60Hz video input source, and compatible with resolution under 4K. it meets the high requirements of video signal transmission in broadcasting and television industry.
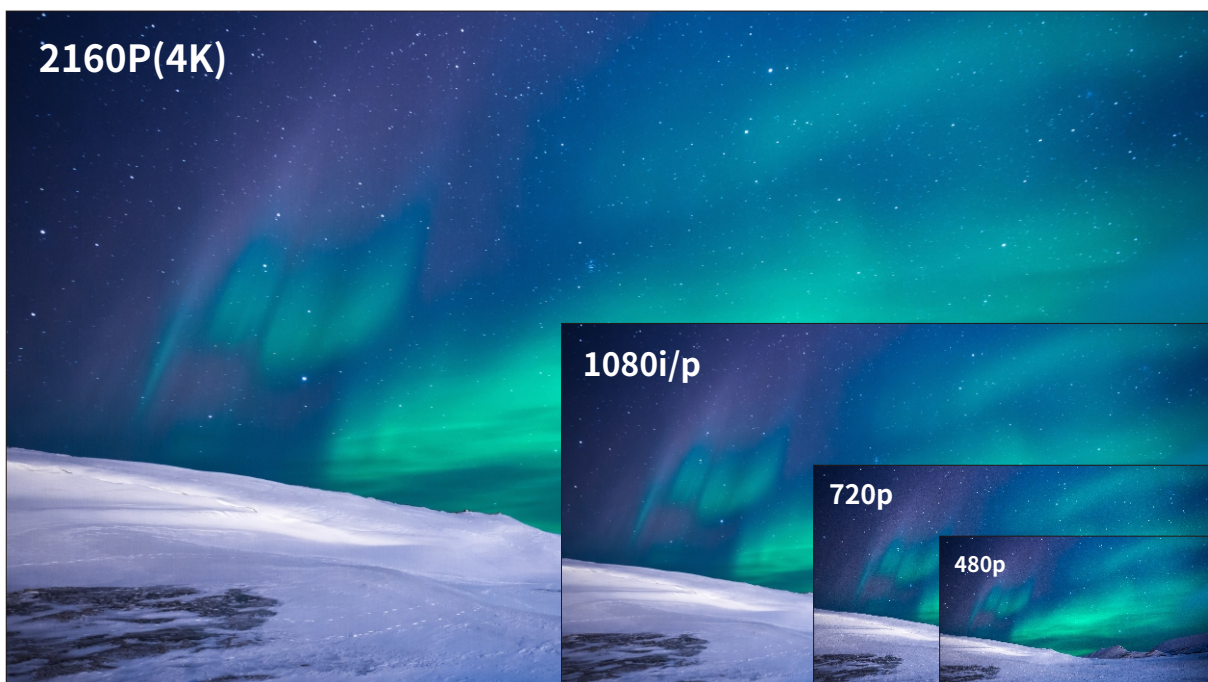
▢ Multiple control modes

Touch screen can set parameters, and slide logo to unlock and enter menu. Support T–Bar switch or CUT/TAKE button to switch. Support UDP central control.
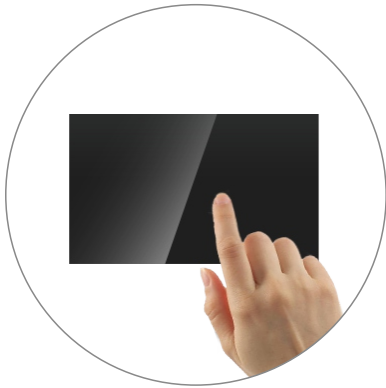
Touch screen control	T–Bar switch	UDP Central control

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▣ Technical Parameters

Input indication

Port \ Model	MIG-EC90 Pro-A	MIG-EC90 Pro-B	MIG-EC90 Pro-C	Resolution
HDMI2.0	4	2	6	3840×2160/60Hz and EDID management
DP1.2	2	4	/	3840×2160/60Hz and EDID management
12G SDI	2	2	2	3840×2160/60Hz and EDID management, 3840×2160/30Hz, 1920×1080/60Hz, compatible with resolution below 4K

Output indication

Type	Port	Quality	Resolution
Program output	HDMI	2×2	4092×2160/60Hz,4092×2160/50Hz,3840×2160/60Hz, 3840×2160/50Hz,3840×1080/60Hz and customized output resolution. maximum width 4092.maximum height 2600
AUX output	HDMI	2×2	
Multi-preview	HDMI	1	1920×1080/60Hz

*2x2: 3 groups of output, each includes 2 duplicate ports.

Specification

Power supply	100~240V AC 50/60Hz
Power consumption	120w
Overall dimension(LxWxH)	508mm×405.9mm×114.8mm
Net weight	10.7g