SYSOLUTION

S80

2-In-1 Video Processor

Product Specifications

Version：Ver.1.0

Statement

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Update Record

No.	Version	Update	Revise
1	Ver.1.0	Initial Release	2021.07.19

Note: The document is subject to change without prior notice.
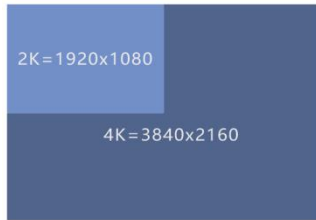
Product Picture
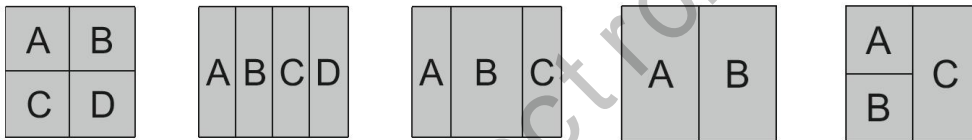

Front panel

Rear panel

Functions

1. 4K-60Hz high-definition input: multiple 4Kx2K@60Hz input interfaces, more detailed performance and clearer display;
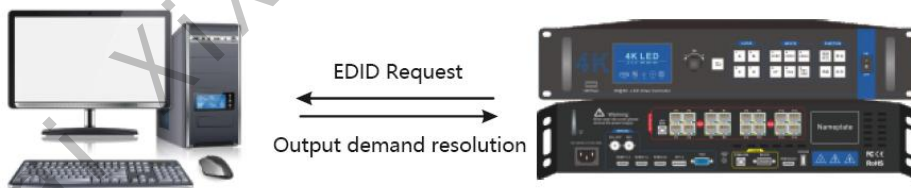

Display content 4K is 4 times that of 2K   4K@60Hz high field frequency is smoother

2. 4 kinds of screen layout options: S80 can output 4 layers, a variety of layout options;

3. EDID management: HDMI, DP, VGA interfaces have custom EDID function, which solves the problem of abnormal resolution and display ratio of the source end, and makes the display effect more perfect;

4. Dual-core image scale: It can be divided into 2 groups for custom resolution, the resolution of each group can output different resolutions, and the loading area is much larger than the conventional one;
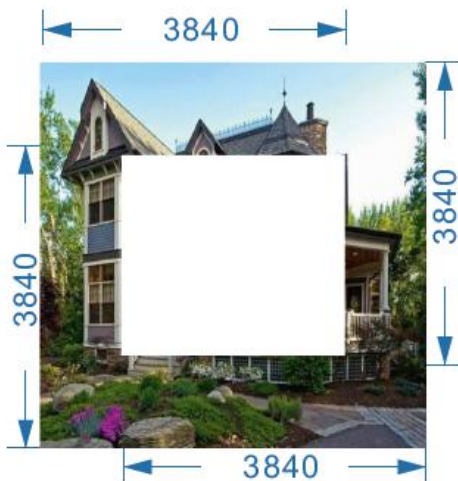
5. 5.20.8 million pixel output: S80 single network port with a load of 650,000, 32 network ports with a total of 10.4 million pixels, making the market adaptable, up to 15360 pixels in length, up to 5760 pixels;

6. USB player: S80 supports optional USB player function, built-in high-definition hardware decoding core, has powerful video decoding ability, can play video and pictures, and can set hold time；

7. Ultra HD Blu-ray BT.2020 color gamut: S80 supports a new generation of color gamut space, and the color performance of Ultra HD Blu-ray BT.2020 is better;
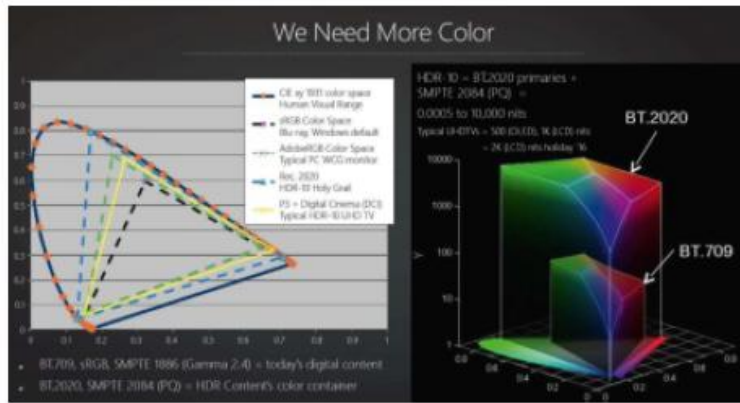
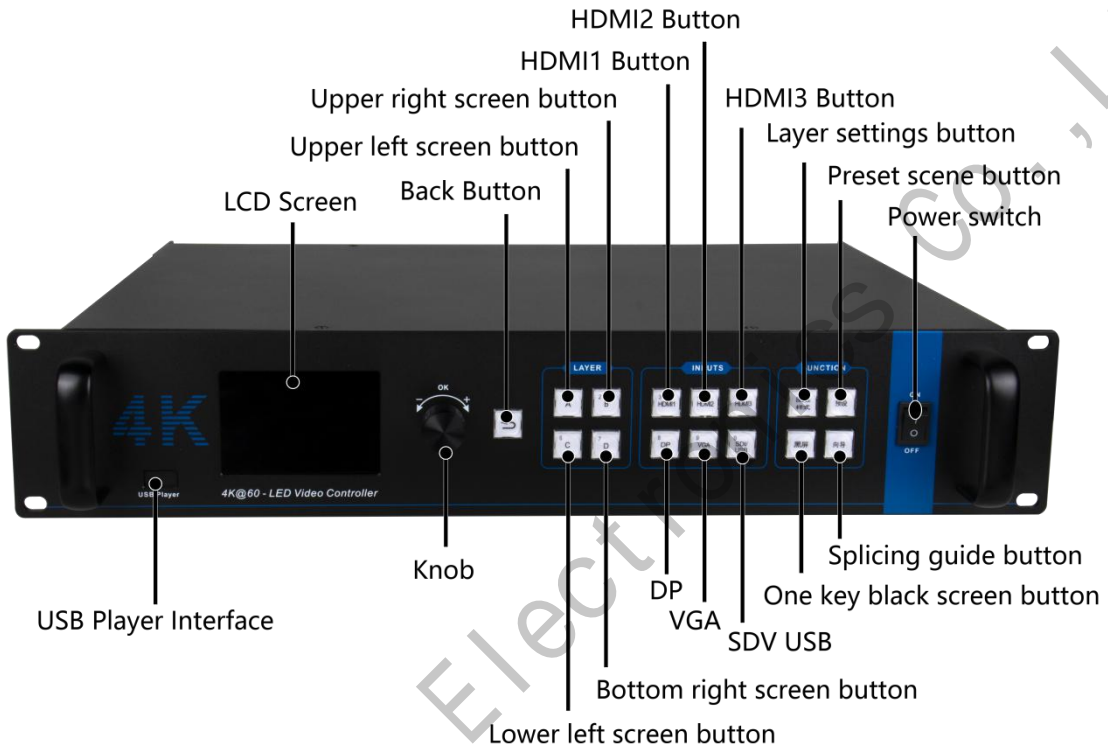8. Audio synchronization switching: S80 input signal source can be associated with HDMI, DP,

transmission without delay, no noise;

9. Support monitoring output;

10. Support SDI or USB input;

11. 3.5-inch high-definition LCD screen;

12. Support WiFi control;

13. Support time lock and card lock;

14. Support parameter readback.

Interface Definition

Front Panel

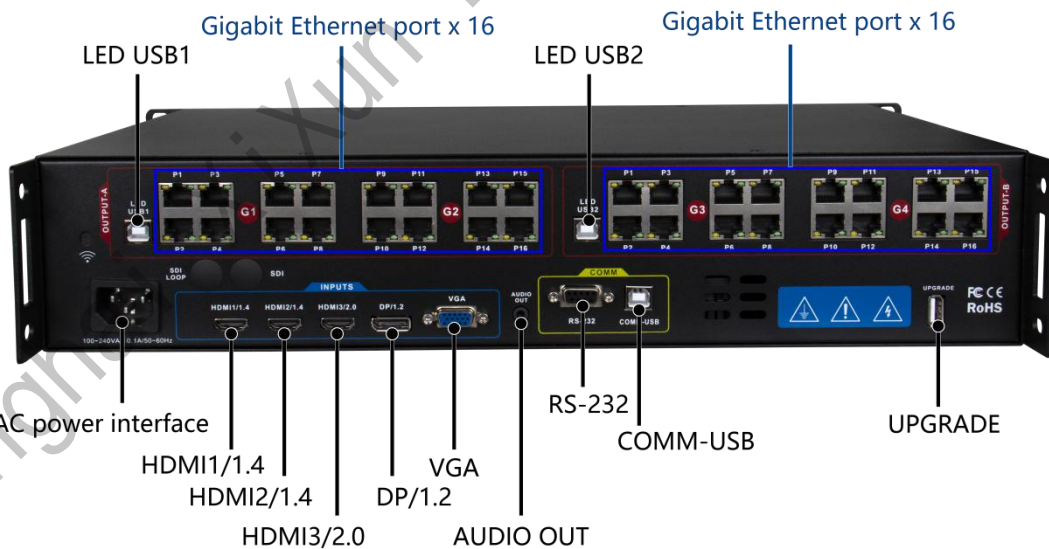| No	Button	Description
1	USB Player	To play the picture or video file of the U disk, you need to store the picture or video in the root directory of the U disk.
2	LCD screen	Displays menus and current information.
3	Knob	"Confirmation and Adjustment". Press down is the OK key, enter the menu or the next-level menu key, and confirm the function. Rotate left

		and right for + "plus" - "minus" operation, you can adjust the menu position or adjust the parameter value to decrease.
4	Return	Menu exit key, or return to the previous menu.
5	Layer	1. A, B, C, D keys: four layer keys, corresponding to the upper left, upper right, lower left, and lower right four big pictures, no preview mode can not be adjusted, other modes can be set freely.
	Input Source	1. HDMI1 HDMI2 HDMI3, corresponding to the HDMI1 HDMI2 HDMI3 video input interface on the rear panel respectively. 2. DP key: Display Port input interface. 3. VGA key: VGA input source key, reused as "" when U disk is playing, stop playing. 4. USB key: external media playback, U disk playback input source.
7		The function key area includes screen display mode, preset recall, one-key black screen, and output resolution, which can quickly realize the operation of each function. 1. Layer settings key: Quick access to layer

		settings.
	Functional area	2. Preset key: Preset scene loading shortcut key. Press this key in the default menu state to call up the preset scene list, and then cooperate with the menu function key to call up the preset scene. 3. Black screen key: This key is a composite key, which can be set to freeze or black screen. 4. Splicing wizard key: can quickly enter the splicing wizard.
8	Switch	Front AC power switch.

Gigabit Ethernet port x 16
LED USB1
LED USB2
Gigabit Ethernet port x 16

AC power interface
HDMI1/1.4
HDMI2/1.4
HDMI3/2.0
DP/1.2
VGA
AUDIO OUT
RS-232
COMM-USB
UPGRADE

Real Panel

Input Interface		
Interface	**Quantity**	**Description**
AC power connector	1	100~240VAC 0.1A/50~60Hz
LED USB1、2	2	It is used to connect to the computer, and use the Rgbsky_LED system debugging software to set the parameters of the main control part and the receiving card, etc.
HDMI	3	High-definition video input, using HDMI-A standard interface, input video supports HDMI1.3 standard and VESA standard. Commonly used to connect desktop computers and HDMI high-definition players.
DP	1	Display port interface
VGA	1	Maximum support for 1920x1080@60Hz resolution video source input, backward compatible.
Output Interface		
Interface	**Quantity**	**Description**
Gigabit Ethernet output	32	32 Gigabit Ethernet ports, each with 650,000 pixels.

		3.5mm audio port
AUDIO OUT	1	Support audio output channel: 3.5mm audio interface, HDMI, USB

Control Interface		
Interface	**Quantity**	**Description**
RS232	1	The serial communication connector is used for engineering testing, program programming, and host computer software control. The communication baud rate is 115200bps.
COMM-USB	1	It is used to connect to the computer, and use the Rgbsky_LED system debugging software to set the parameters of the main control part and the receiving card, etc.
UPGRADE	1	Debug port

Product Parameters

HDMI2.0 Video Input	
Quantity	1
Interface type	HDMI-A socket
Standard signal	DVI1.0/HDMI1.3 backward compatible VESA standard
Supported resolution	3840x2160@60Hz
DP1.2 Video Input	
Quantity	1
Interface type	DP socket
Standard signal	DP1.2 backward compatible
Supported resolution	3840x2160@60Hz
HDMI1.4 Video Input	
Quantity	2
Interface type	HDMI-A socket
Standard signal	HDMI1.4 backward compatible
Supported resolution	3840x2160@30Hz
VGA Video Input	
Quantity	1
Interface type	DB15 socket
Standard signal	Analog RGB
Supported resolution	VESA standard 1920x1200
USB Player(option)	
Quantity	1
Interface type	USB-A
Standard signal	USB2.0
Supported format	rm，rmvb，mp4，mov，mkv，wmv，avi，3gp，jpg，bmp，png
Supported resolution	Video 1080P backward compatible Picture 4096 x 2160 backward compatible

SDI Input（option）	
Quantity	1
Interface type	BNC
Standard signal	SD-SDI，HD-SDI，3G-SDI
Supported resolution	1080p 60/720p 60 1080i 1035i 625/525 line
LED Video Output	
Interface type	RJ45
Quantity	32
Transmission	1000BaseTX
Transmission resolution	20.8 million pixels; width 15360; maximum 5760
Transmission wire	Cat5e network cable
Transmission distance	Cat5e network cable≤140M；Cat6e network cable≤170M
Check way	CRC check
Support receiving card	D70 and above series receiving cards and R90 multi-function cards
Audio Output	
3.5 Headphone jack quantity	1
Output power	80DB
Output channel	left and right channels
Support audio channel	HDMI1, HDMI2，HDMI3、DP、USB
LED-USB Communication	
Interface	Type B
Communication method	USB/RS232
Probe receive card	Multiple receiving cards can be probed simultaneously
Brightness adjustment	Ensure the gray level and adjust the brightness of the receiving card
Firmware update	Support sending card and receiving card online update
Bit error rate detection	Quality of network cables between receiving cards and fault diagnosis
Serial Communication	

Interface	DB9-female
Communication method	RS232
Function	Switch signals, presets, brightness, and more
WiFi communication	
Interface	Wireless
Communication method	WiFiI5
Function	Switch signals, presets, brightness, and more

Working Parameters

Function	Parameters
Input power	100VAC-240VAC 50/60Hz
Maximum power	65W
Working temperature	0℃~45℃
Dimensions	Body size：335 x 440 x 88 mm Out packing size：540 x 450 x 190 mm
Net weight	6.8Kg

Cautions

1. Commissioning and installation must be completed by professionals;

2. Non-professionals are not allowed to disassemble the machine for maintenance;

3. Pay attention to anti-static;

4. Pay attention to waterproofing.