SYSOLUTION

S40M

2 In 1 Video Processor

Product Specifications

Version： Ver.1.0

Statement

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Certification

There are several types of product certification:

1. The information release platform has obtained the third level filing certificate for information system security from the Ministry of Public Security;

2. The material review of the Xinfa platform has passed the registration certificate for the information network dissemination of audio-visual programs;

3. Stable and qualified product certificate through national quality inspection.

If the product does not have relevant certification for the country or region to which it is sold, please contact relevant personnel of Xixun Technology for confirmation or processing as soon as possible. Otherwise, if it causes relevant legal risks, the customer shall bear it on their own or Xixun Technology has the right to pursue it.

Update Record

No.	Version	Update	Revise
1	Ver.1.0	Initial Issue	2024.10.09

Note: The contents of the document are subject to change without notice.

Product Introduction

S40M is a 2-in-1 processor developed for LED displays that integrates professional 4K master control and powerful 4K multi-screen video processing. Easy to operate and feature-rich, which is conducive to simplifying the site building environment. Support ultra-high-definition (UHD), high-definition (HD) interface mixed input. Has 2 output modes of network port output or fiber optic port output. Up to 6 simultaneous displays, processing and displaying 5 different input signal sources at the same time. 40-way Gigabit network port output, the maximum number of LED screens that can be driven 26 million points of pixels. Adopting high performance image processing chip with advanced interlaced image adaptive processing technology and ultra-clear noise reduction engine to eliminate video image motion trailing and jagged phenomenon. Video image enhancement technology makes the image more clear and delicate, rich in details, full of color and stable image quality.

Application Scenarios

S40M is used in large stage theater performances, display exhibitions, bars, KTV and other project application scenarios of oversized LED display, hybrid LED display.

Functions

1. A variety of input interfaces: 1 × HDMI 2.0, 1 × HDMI 2.0 (built-in HDMI interface), 1 × DP1.2, 2 × DVI, 2 × HDMI1.3

2.EDID management support DVI, HDMI, DP interface input resolution management

3. Stand-alone 40-channel Gigabit Ethernet port output, the maximum bandwidth of 26 million pixels point LED screen, customize the output resolution, the output of the widest horizontal 16384 pixels, the vertical maximum 16384 pixels

4. Picture-in-picture function: insert other images into the main screen of 4K input; multi-layer function: 2 4K windows + 2 2K windows or 6 2K windows, support for window stacking, roaming and arbitrary switching

5. Support audio input and output, audio and video switching as you go.

6. Support 128 kinds of scene templates, directly call; built-in clock, support for timed scene template switching

7. Support 3D display, active 3D display

8. Support HDR display

9. Support key lock function

10. Support data patrol function

11. Support PC software control window opening, window size and position arbitrary drag and drop

12. Support screen freeze, output screen black screen with one key

13. Support USB interface, hundred megabit network two control

14.RS232 serial port protocol control.

Load Capacity

Load Capacity	Single Network Port	650,000 pixel point
	Whole Machine	Maximum 26 megapixel point
Width of Points	Whole Machine	16384
Highest of Points	Whole Machine	16384

Interface definition

Front Panel

Front Panel Introduction		
No.	Key-switch	Introduction
1	ON/OFF	Power switch
2	LCD screen	Displays the current state of the device, as well as the settings menu.
3	Knob	Knob button for menu selection Return button
4	Input source switching keys	DVI1 — DVI1 Input/Numeric Keys 1
		DVI2 — DVI2 Input/Numeric Keys 2
		HDMI1 — HDMI1 Input/Numeric Keys 3
		HDMI2 — HDMI2 Input/Numeric Keys 6
		HDMI3 — HDMI3 Input/Numeric Keys 7
		DP — DP Input/Numeric Keys 8
5	Function	Win — Layer selection/number key 4

	buttons	PART	Partial full-screen shortcut/number key 5
		TEMPLATE	Multi-screen template shortcut
		HDMI4 (Built-in HDMI interface)	HDMI4 Input / Numeric Key 9
		FREEZE	Freeze Function Shortcut
		MODE	Load Scene Shortcut

Back panel

Input port		
Port	**quantities**	**Introduction**
HDMI2.0 (HDMI3)	1	Two signals (two choose one) use, only one signal can be input at the same time. Maximum support 3840×2160@60Hz resolution video source input. Support customized resolution.
HDMI 2.0 (built-in HDMI port) (HDMI4)	1	
HDMI1.3 (HDMI1、HDMI2)	2	Supports up to 2304×1152@60Hz resolution video source input. Supports customized resolution. Supports audio input Limit width: 3840 (3840×640@60Hz)

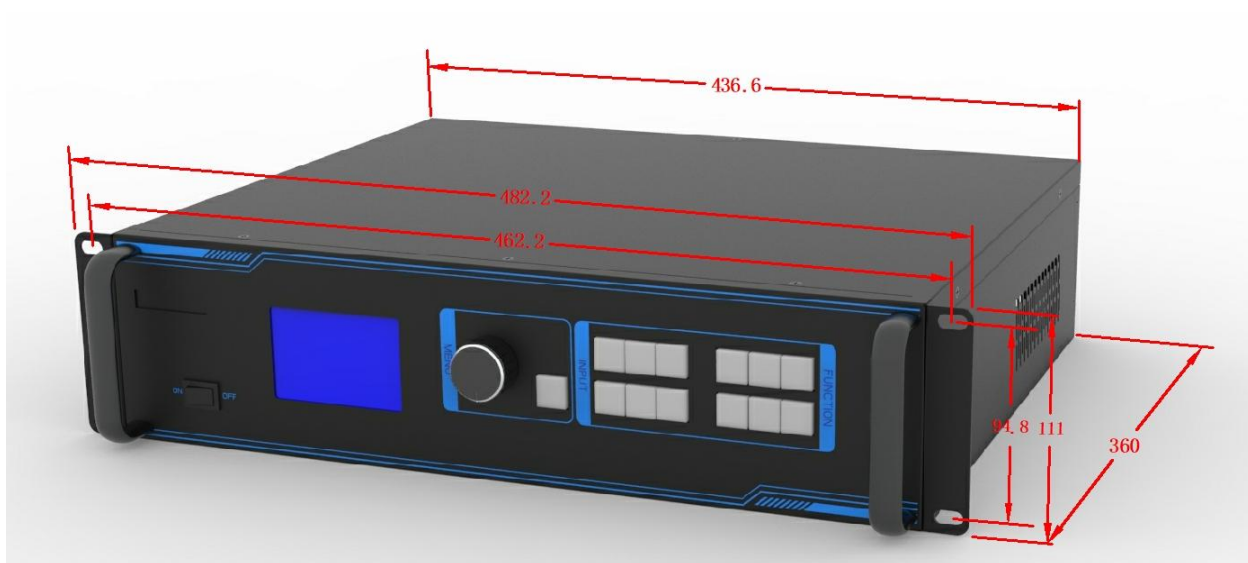|		
DVI (DVI1、DVI2)	2	Supports maximum 1920×1200@60Hz resolution video source input. Supports customized resolution. Limit width: 3840 (3840×640@60Hz) Limit height: 3840 (640 x 3840 @ 60Hz) Interlace signal input is not supported.
DP1.2	1	Maximum support 4096×2160@60HZ resolution video source input. Support customized resolution. Support audio input, support 10Bit Limit width: 7680 (7680×1080@60Hz) Ultimate height: 7680 (1080×7680@60Hz)
Output port		
Port	**quantities**	**Introduction**
network port	40	Maximum bandwidth of 26 megapixels, up to 16,384 pixels wide, up to 16,384 pixels high, can be up and down, left and right any stitching.
fiber optics	4	OPT1 corresponds to network port 1~8; single fiber interface bandwidth 10Gbit/s OPT2 corresponds to No. 9~16 network ports; single fiber interface bandwidth of 10Gbit/s OPT3 corresponds to No. 17~24 network ports; single fiber interface bandwidth of 10Gbit/s
Audio port		

Port	quantities	Introduction
AUDIO IN	1	External audio input source
AUDIO OUT	1	Audio output, can be set to output audio from any window source or external audio input source.

	Control port	
Port	quantities	Introduction
LAN	1	Hundred megabit network port, through the network
RS232	1	Serial port, and the central control port
USB	1	1×USB 2.0 (Type-B, square port): interface for upper computer control

	Extended Function Interface	
3D	1	Connects to 3D transmitters;
Genlock (Optional)	1	Genlock control interface, one way in, one way loop out

	Power supply connector	
Port	quantities	Introduction
Power supply	1	AC-100-240V-50/60HZ AC power supply

Operating parameters

Electric parameter	Input voltage	AC-100-240V-50/60HZ
	Rated power	36W
Work environment	Work temperature	-20℃ - 60℃
	Work humidity	10%RH-80%RH No solidification
Outline dimension	Case size：486x365x88.9mm(L x W x H)	
Net weight	6.32Kg	
Packaging Information	Outer box size	565×445×185mm
	Accessory	1×Power cable, 1×USB, 1×DVI cable, 1× HDMI2.0, 1×DP cable, 1×DP to HDMI cable, 1 ×Certificate of Conformity

Dimension figure

Unit：mm

Notes

1. High-voltage hazard: The working voltage of this product is AC -100V ~ 240V.

2. Prohibit liquid, metal fragments and other conductive objects to be immersed inside the

equipment, so as not to cause safety accidents.

3. Please use the equipment in a dry and clean environment.