SYSOLUTION

S120

Independent master video processor

Specification

Version： Ver.1.0

Statement

Dear user friend, thanks for choosing SHENZHEN SYSOLUTION TECHNOLOGY CO.,LTD referred to as Xixun Technology) as your LED advertising equipment control system. The main purpose of this document is to help you quickly understand and use the product. We strive to be precise and reliable when writing the document, and the content may be modified or changed at any time without notice.

Copyright

The copyright of this document belongs to Xixun Technology. Without the written permission of our company, no unit or individual may copy or extract the content of this article in any form.

Trademark

 is a registered trademark of Xixun Technology.

Update Record

No.	Version	Updates	Revision Date
1	Ver.1.0	Initial Release	2024.01.15

The document is subject to change without prior notice.

Product Introduction

S120 has multiple types of video signal reception capabilities, ultra-high-definition full 4K ×2K@60Hz image processing capabilities and sending capabilities; it can send the processed video to the LED display through the network port and optical fiber port; and has powerful processing ability to effectively improve load utilization,ultra-stable performance and ultra-high cost performance.

Features

1. Rich input interfaces: 1 channel DP1.2 input; 1 channel HDMI2.0 input; 1 channel AUDIO audio input.

2. Multiple output interfaces: 12 Gigabit network port outputs.

3. Multiple communication control methods: 1 USB interface; 1 serial port; 1 100M network interface.

4. Support network port loop backup and dual master backup.

5. Supports multiple preset resolutions; and supports resolution customization functions.

6. Compatible with various frame rate inputs such as 30HZ, 50HZ, 60HZ, 120HZ, etc.

7. Support the host computer software to monitor the operating parameters and status of the sending card.

8. Support configuration parameter readback.

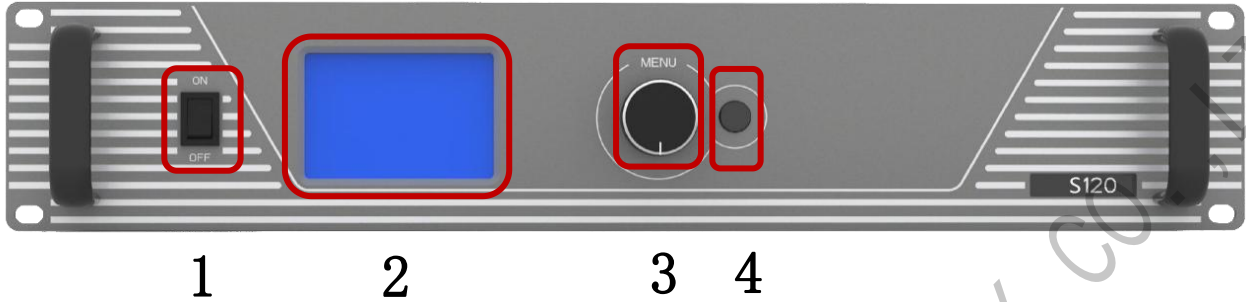9. Support Gigabit network bit error rate detection.

Applicable scene

The powerful video processing and sending capabilities of the S120 can be widely used in various application scenarios such as stages, conferences, events, exhibitions and other high-end rental and small-pitch displays.
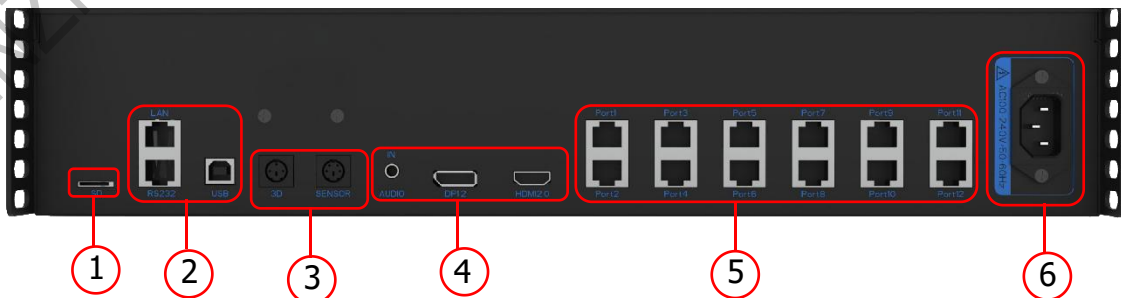
Loading Capacity

Load capacity	One Ethernet port		650,000 pixels
	whole device		7800,000
Loading range	One Ethernet port	width	128—4096 pixels
		height	64—4096 pixels
	complete machine	width	640—8192 pixels
		height	480—8192 pixels
Offset range	width		0-8192 pixels
	height		0-8192 pixels

Interface Definition

1　　　2　　　　3　4

Front Panel		
No.	Name	Description
1	switch	Power on/off the device
2	LCD screen	Used to display the current status of the device and set menu item parameters
3	knob	In the main interface, press the knob to enter the menu operation interface.
		In the menu operation interface, rotate the knob to select the menu, press the knob to select the current menu or enter the submenu.
4	Return key	Exit the current menu or operation.

Rear panel description

Input Interfaces		
No.	Interface	Description
4	AUDIO	3.5mm Audio input interface
	DP1.2	backward compatible; the maximum customizable width of the graphics card is 7680, and the maximum height is 7680.
	HDMI2.0	backward compatible; the maximum customizable width of the graphics card is 7680, and the maximum height is 7680.

Out put Interfaces		
No.	Interface	Description
5	Ethernet port	12-channel Gigabit network port outputs, carrying up to 7.8 million pixels. The maximum load of a single network port is: When the input source bit is 8bit, 650,000 pixels.

Control Interfaces		
No.	Interface	Description
2	USB （square port)	connect to PC side
	RS232	RS232 interface connects to central control equipment.
	LAN	100M network communication interface to realize LAN communication

Expand function interfaces		
No.	Interface	Description

1	SD	Connect the SD card to store device parameters. When replacing the device, you can read back from the SD card without debugging.
3	3D	Connect 3D launcher
	SENSOR	Connect the light sensor probe to realize automatic brightness adjustment.

Power Interface

No.	Interface	Description
6	power port	AC-100-240V-50/60HZ AC power interface

Working Parameters

Electrical parameters	Input power voltage	AC-100-240V-50/60HZ
	rated power	70W
Working environment	working temperature	-20℃-70℃
	working humidity	10%RH-90%RH No condensation
Dimensions	482.6mmX365mmX88.9mm（LxWxH）	
Net weight	6.2Kg	
Package	Carton box size	565×445×185mm
	accessories	1×DP cable、1×HDMI cable、1×USB cable、1×power cable 、1×SDI cable、1×Certificate

Dimensions

Unit：mm

Notes

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

2. No conductive objects such as liquid and metal fragments are immersed into the equipment to avoid safety accidents。

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