AV Over IP

LY51-Net Decoder

Specification sheet

Brief introduction

LY51-Net Decoder is a high-performance and cost-effective distributed node developed by our company. Based on the distributed architecture design of Linux system, it is a decentralized architecture that can achieve any number of scalable nodes without the need for servers and master nodes. Each node is independent and does not interfere with each other, thereby reducing the risk of system operation and reducing maintenance costs. The advantage of this design is that it can better adapt to constantly changing needs without the need for large-scale system refactoring and upgrades.

The silent design without a fan is a very important feature. It can support independent installation of 1U cabinets or install 2 units side by side simultaneously, saving space and improving system flexibility. This design not only provides a more comfortable working environment, but also reduces system energy consumption and maintenance costs.

Suitable for many industries such as government, military, public security, judiciary, transportation, education, maritime, security, electricity, water conservancy, telecommunications, medical, finance, mining area broadcasting, energy, etc., it has been widely used in emergency command centers, command and dispatch centers, airport control, digital cities, digital transportation, digital healthcare, park security, digital buildings, digital construction sites, digital exhibition halls, multimedia conference rooms, lecture halls, and many other places

Functional characteristics

Full information visualization

Signal visualization, scene visualization, audio visual environment status visualization.

Simplify interaction

You can drag and drop the window with your fingers, and support multi touch.
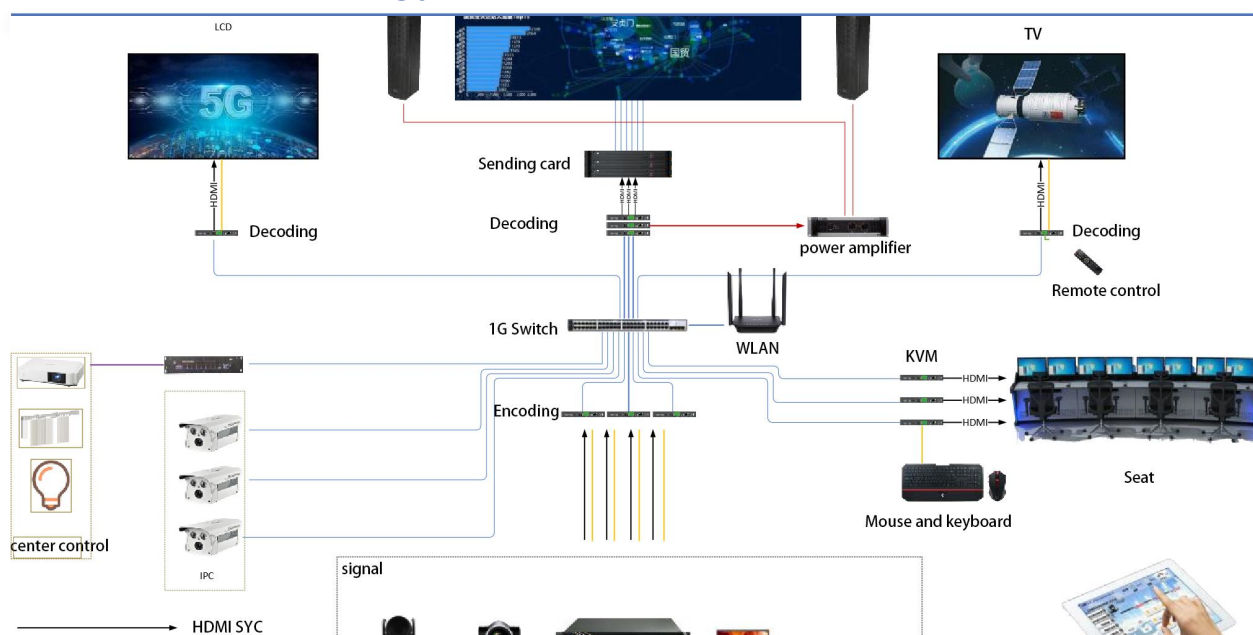
Interface customization

Through the designer, you can freely design interface templates, which are simple to use, WYSIWYG, and support unified deployment of multiple platform interfaces.

Soft KVM function

You can directly control any content of the signal source on the tablet, such as video playback, pause, PPT flipping, etc., making it convenient to explain when you moving.

Application topology

Product specifications

Type	4K distributed decoding output
Model	LY51-Net
Hardware feature	1. Input supports up to 3840* 2160@30Hz , and backward compatibility; 2. Adopting advanced image decoding technology for deep compression, IP conversion 3. Supports TCP/UDP mode. 4. Supports high-definition base image display and scrolling subtitles; 5. Support full type display splicing, including LCD splicing, LED small spacing, etc; 6. Support ONVIF protocol for cameras to directly decode and display on the screen; 7. Support and input nodes to connect directly to the network cable and plug and play by default. 8. Support front LCD display of IP address; 9. Support dual network backup for optoelectronics; 10. Support RS232, RS485, relays, IO environmental control; 11. Support POE and DC power supply.
Front panel	
Indicator light	PWR Power light

	SYS System running light
	LINK Network status light
	HDMI HDMI output status light
OLED Display	Node model, ID, IP, and status parameters
Rear panel	
Video input (invalid)	1-channel Type-A HDMI output, 19P female head
Video output	1-channel Type-A HDMI output, 19P female head
Audio input (invalid)	1-channel 3.5mm terminal
Audio output	1-channel 3.5mm terminal
Network interface	1 RJ-45 interface, 1000M Base-T interface supports PoE 1 SFP interface, 1.25Gbps
Peripheral communication	1 RS232 Phoenix terminal
	1 RS485 Phoenix terminal
	1 relay Phoenix terminal
	2-channel IO Phoenix terminal
KVM interface (invalid)	2-channel USB 2.0 interface
Power interface	DC 12V 1A

Technical parameter		
Video input and output	Type	HDMI
	Resolution	Maximum support 3840*2160@30Hz
Audio input	Type	Line in or HDMI Embedding
Network	IPdistribution	Manual settings
	Decoding algorithm	H.264/265
	Stream adjustment	Fixed stream, dynamic stream

Control support		
Control	Communication protocol	TCP/IP、UDP
	Software	CS；APP（IOS、Android、Harmony）
Peripheral control	Communication protocol	RS232、RS485 and TCP/UDP

Physical parameters	
Temperature	-20℃～+60℃
Humidity	10-90%，non-condensing
Material	Aluminum panel+sheet metal powder coating
L×W×H	≈210mm×113mm×30mm
Net weight	≈0.6KG

Information

We declare that our company's products will keep up with the development of technology and continue to improve. The product specifications are for reference only and are subject to change without prior notice. The final interpretation rights belong to our company.