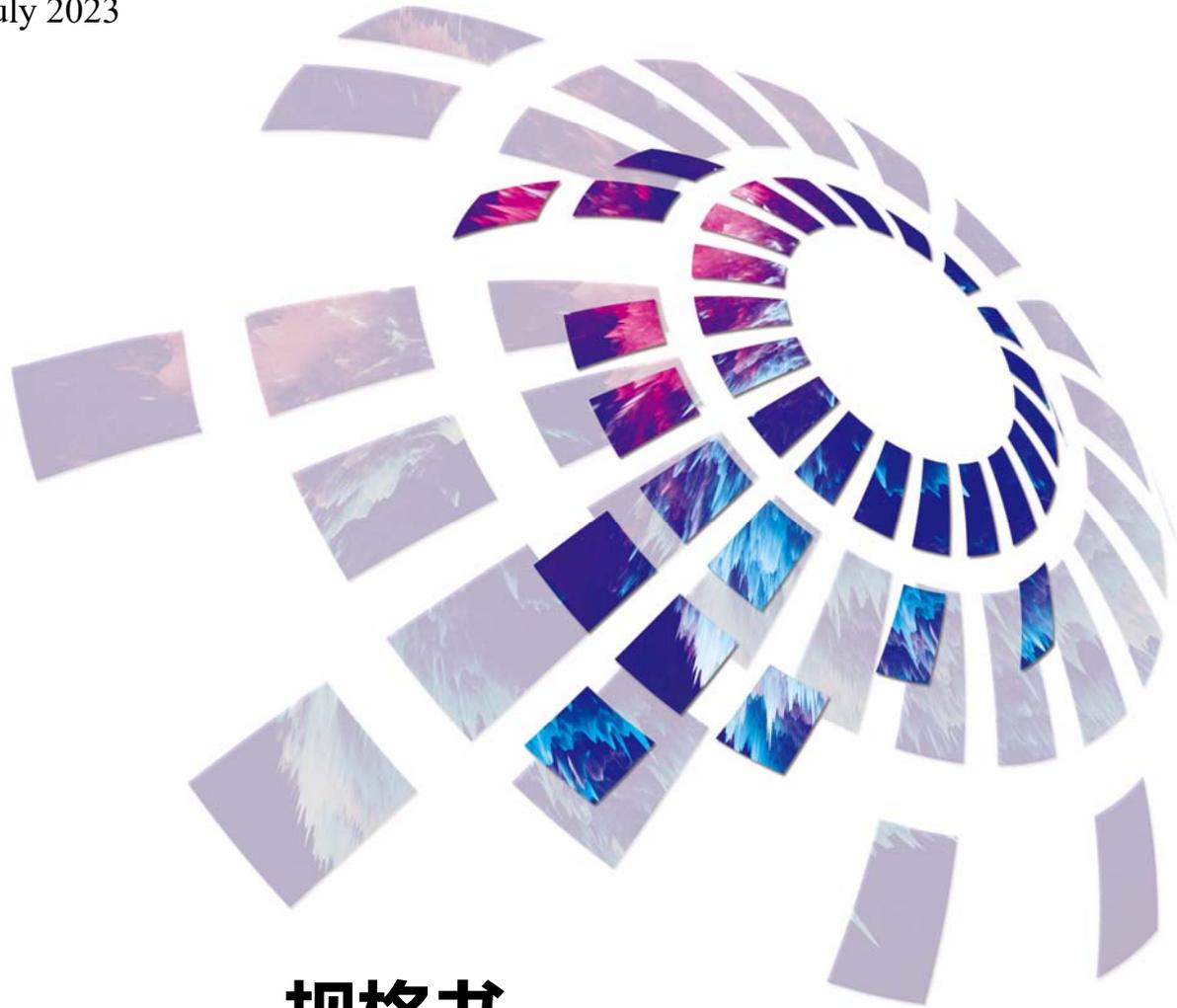


KLS24

Twenty-Four ports 2-in-1 video controller

version: v1.4

Release Date: July 2023



规格书



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Professional Ultra HD Video Display
Control system integrated solution and service provider

Version record

version number	Change details	release time
V1.0	First edition released	2021.03.17
V1.1	Modify the cover	2021.10.25
V1.2	Correct dimensional data	2021.11.18
V1.3	Fix control port type and description	2022.02.25
V1.4	4K daughter card replaced with DP daughter card	2023.07.12

Summary

KSV24 is a spelling control processor designed for live performance LED large screens. It adopts the industry's top design technology and complies with international and industry standards. Pure hardware FPGA design architecture, all boards of the product adopt modular design, and input boards can be freely selected. It is the only 3U device in the industry that supports 4K@60Hz input.

The 13.8 million pixels of the whole machine can be customized to meet most on-site needs.

Features

1. Pure hardware FPGA architecture: no CPU, no core, no risk of poisoning and crash, and the system runs stably. MTBF>30,000 hours, supporting 365×24 hours of continuous operation
2. A single network port can carry 650,000 pixels, and the whole machine can carry a maximum of 13.8 million pixels. The maximum width can be up to 24,000 dots, and the maximum height can be up to 24,000 dots. The single machine has 24 network port outputs.
3. Multi-picture display, the whole machine can display up to 16 pictures at the same time, and a single-layer output board can display up to 8 pictures at the same time. The pictures can be displayed across the output network ports, supporting any superposition and any size setting.
4. Equipped with 4K@60Hz module, supports DP1.2 input, and the maximum resolution supports 4096×2160@60Hz or 7680×1080@60Hz.
5. Software control, users can directly connect to the host computer software or control via LAN. It also supports B/S architecture. Users can use a browser to access the device for management through LAN or the Internet.
6. Group screen management, the device supports two groups of screen management, and the resolution of the corresponding output port of each group of screens can be set separately to meet the mixed control of multiple display terminals in special-shaped screens and complex scenes.
7. Super Resolution zoom technology and video compensation processing algorithm, the picture can be reduced without size restrictions, and retain the image details, reducing the out-of-focus phenomenon caused by magnifying the picture multiple times.
8. CrossInt splicing processing technology effectively eliminates splicing misalignment and out-of-synchronization.
9. Mode calling function, users can preset multiple display layout plans, which can be called with one click during use, supporting up to 200 modes.
10. Mobile management function, you can set parameters and manage signals of the device through the mobile device APP software, supporting Android and IOS.
11. Seamless switching function, when switching signals or calling modes on the screen, there will be no black screen, no flickering, and no lag in the whole process.
12. EDID management function, by changing the device EDID information, users can set the input resolution of the device.

Port specifications



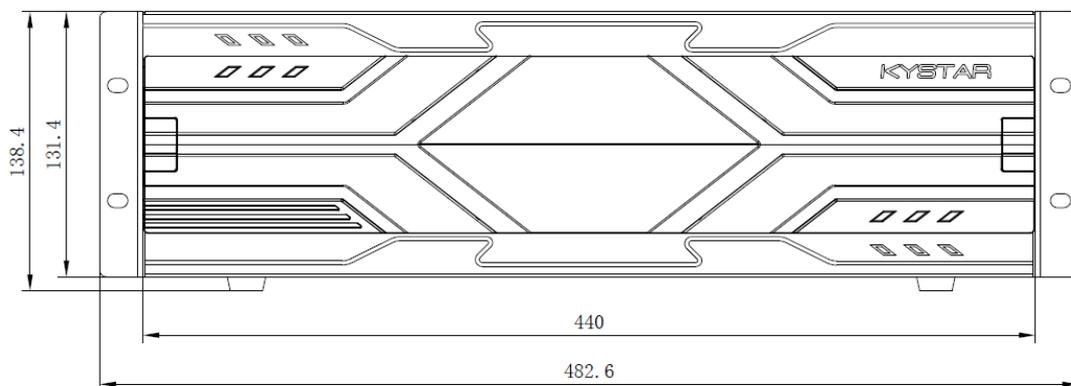
Input port		
type	quantity	Specification
DVI-D (24+1)	2	<ul style="list-style-type: none"> ·The maximum supported resolution is 2048×1152@60Hz, and custom resolution is supported ·Compatible with HDMI1.3 and below versions
HDMI 1.3	2	<ul style="list-style-type: none"> ·The maximum supported resolution is 2048×1152@60Hz, and custom resolution is supported ·Compatible with HDMI1.3 and below versions
DP1.2	1	<ul style="list-style-type: none"> ·The maximum supported resolution is 4096×2160@60Hz or 7680×1080@60Hz. Custom resolution is supported, with a maximum horizontal width of 8000 points and a maximum height of 4000 points.

Output port		
type	quantity	Specification
LAN	24	<ul style="list-style-type: none"> ·LAN port, used to transmit data to the receiving card, ·A single network port can carry up to 650,000 pixels, with a maximum width of 4,000 and a maximum of 4,000 ·The whole machine can carry a maximum of 13.8 million pixels, with a maximum width of 24,000 and a maximum of 24,000

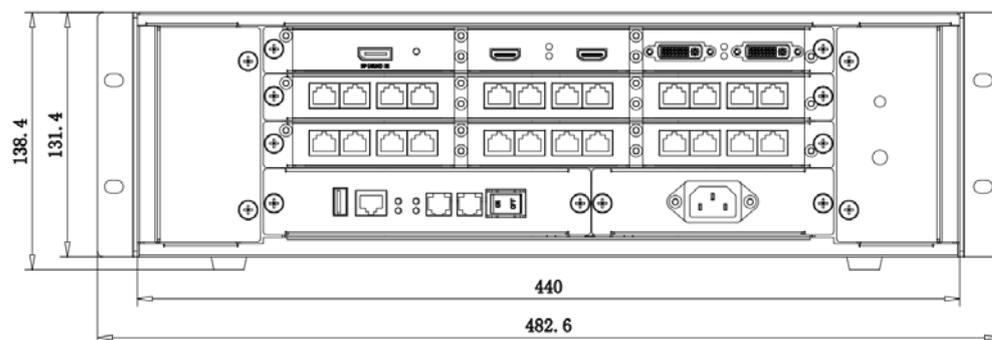
Control port		
type	quantity	Specification
RJ-11 (RS-232)	1	The data transmission rates is 4800、9600、19200、38400 、57600、115200 (BT)
RJ-45	1	100M

Whole machine specification	
Input power	100-240V AC~50/60Hz 6.6A
working temperature	0-45°C
Dimensions	482.6×315.7×138.4mm (L×W×H)
Net weight	10KG
Overall Power Consumption	80W

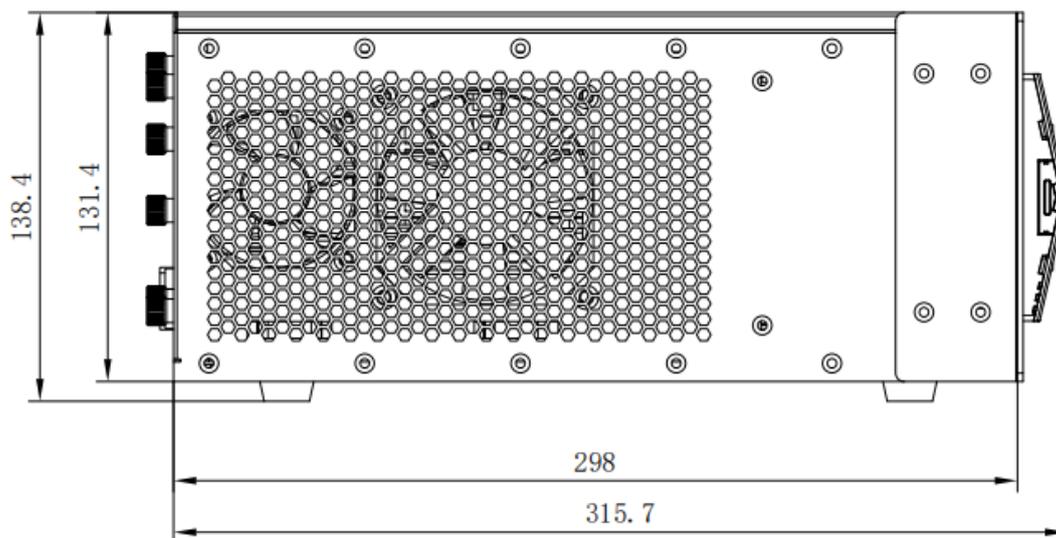
Attachment: equipment dimension drawing



Front panel



Rear panel



Side panel