

KLS6

Six ports 2-in-1 video controller

version: v1.1

Release Date: November 2022



Specifications



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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 release	2022.11.

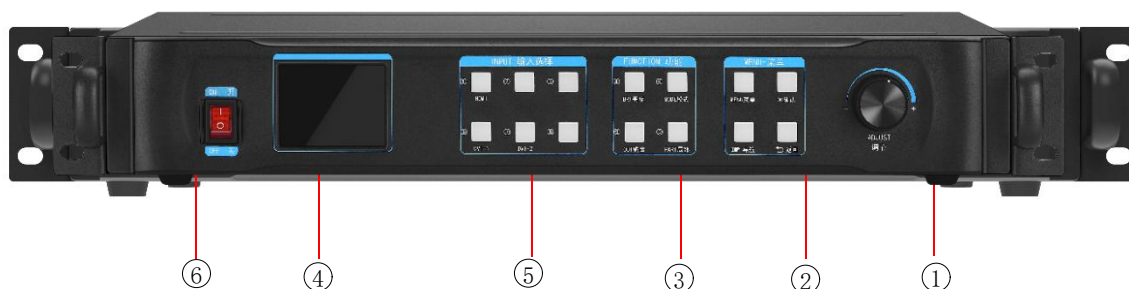
Overview

KSV6 two-in-one controller supports 4 channels of digital signal input and has 6 network port outputs. The whole machine can carry a maximum load of 3.9 million pixels. It adopts a pure hardware FPGA architecture and can run continuously for 365×24 hours to meet the needs of small spacing applications. Configuration requirements for large screen control systems.

Features

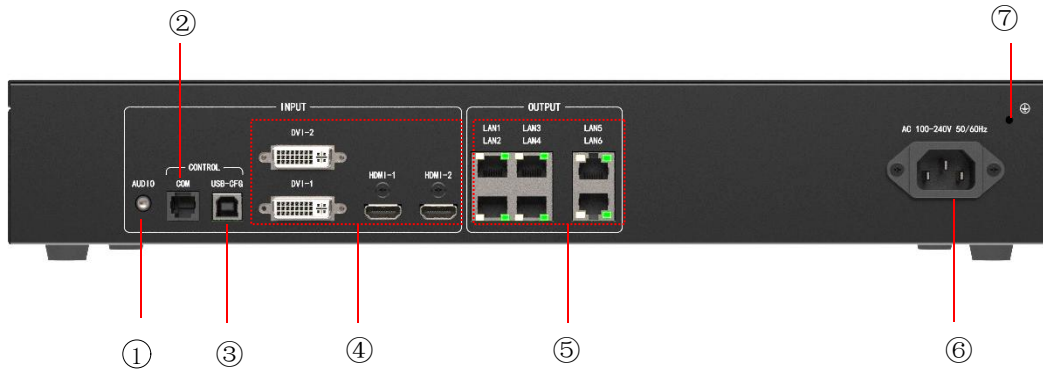
- The stand-alone machine has 6 network ports. A single network port can carry 650,000 pixels. The whole machine can carry a maximum of 3.9 million pixels. The width can reach 8,000 points and the height can reach 4,000 points.
- Supports a variety of digital signal interfaces, including 2 HDMI1.3 and 2 DVI-D input sources.
- Supports 3-picture display, with arbitrary layout of picture positions.
- Support signal source hot backup.
- EDID configuration management: supports reading, modifying, and customizing EDID (Extended Display Identification Data).
- Supports one-click black screen/freeze function.
- Black border removal/cropping function: Solve the black border problem caused by front-end signals, and perform arbitrary cropping for any signal source (still maintain full screen status)
- Supports key lock to prevent misoperation.
- The overall output screen display brightness and contrast can be adjusted in real time and quickly.
- K-HDR function supports SDR to HDR image optimization technology, which can improve the contrast of ordinary SDR videos, enhance image details, and make ordinary videos have HDR effects.

Panel description



Serial	Name	Function Description
①	switch	Device power switch
②	LCD Screen	Display the device settings menu and current status of the device
③	Input selection	<ul style="list-style-type: none"> ● ①DVI-1: Numeric button 1; click to switch directly to DVI-1 signal ● ②DVI-2: Numeric button 2; click to switch directly to DVI-2 signal ● ③: Number button 3 ● ⑥HDMI-1: Number button 6; click to switch directly to HDMI-1 signal ● ⑦HDMI-2: Number button 7; click to switch directly to HDMI-2 signal ● ⑧: Number button 8 Input source status light: Steady on: The input signal connected is normal. Flashing: No signal source is connected or the connected signal source is abnormal.
④	Function shortcut keys	<ul style="list-style-type: none"> ● ④Screen: Number button 4; screen switching shortcut key ● ⑤Mode: numeric key 5; user mode shortcut key ● ⑨Function: Numeric key 9; shortcut keys for commonly used functions ● ⑩OUTOutput: Numeric key 0; Output black screen shortcut key
⑤	Menu	<ul style="list-style-type: none"> ● Menu: Click to enter or return to the main menu interface ● OK: Confirm button ● Navigation: Click to enter navigation debugging ● Return: Click to exit the current interface
⑥	Knob	<ul style="list-style-type: none"> ● Press the knob to confirm the selection ● Turn the knob to select menu options or adjust parameters

Port specifications



Type	quantity	Specification
①	AUDIO	1/8" TRS audio input, 3.5mm stereo interface, 2.0Vp-p / 10 KΩ
②	COM	<ul style="list-style-type: none"> RS232 interface, used to connect central control equipment; The data transfer rate is 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (BT)
③	USB-CFG	USB-CFG Interface: for connecting to PC host computer for control
④	input interface	<p>DVI-1 : Maximum support 1920x1200@60Hz , Support custom resolution, maximum width 2048, maximum 4000 , Support RGB444, YcbCr422, YcbCr444 signal formats</p> <p>DVI-2 : Maximum support 1920x1200@60Hz , Support custom resolution, maximum width 2048, maximum 4000 , Support RGB444, YcbCr422, YcbCr444 signal formats</p> <p>HDMI-1 : Maximum support 1920x1200@60Hz , Support custom resolution, maximum width 2048, maximum 4000 , Support RGB444, YcbCr422, YcbCr444 signal formats</p> <p>HDMI-2 : Maximum support 1920x1200@60Hz , Support custom resolution, maximum width 2048, maximum 4000 , Support RGB444, YcbCr422, YcbCr444 signal formats</p>
⑤	Output Interface	<p>LAN1-LAN6: Used to transfer data to the receiving card</p> <p>-Single network port loading: 655360 pixels</p> <p>-Total loading: 3.9 million pixels, maximum width 8000 or maximum 4000</p>
⑥	Power outlet	<ul style="list-style-type: none"> Connect AC power -100-240V AC~50/60Hz
⑦	Ground terminal	<ul style="list-style-type: none"> For equipment grounding

Whole machine specification	
Input power	100-240VAC 50/60Hz 0.6A
Operating temperature	0-45°C
Dimensions	483×270.5×73mm (L×W×H)
net weight	4KG
Whole machine power	60W

Attachment: equipment size chart

