

# KLS2U

Three-in-one video controller with two network ports

Version: v1.1

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## Specifications



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专业的超高清视频显示、  
控制综合解决方案提供商和运营服务商

## Version record

version number	change details	release time
V1.0	First edition released	2023.03.08
V1.1	Modify the overall load width to 4096	2023.09.26

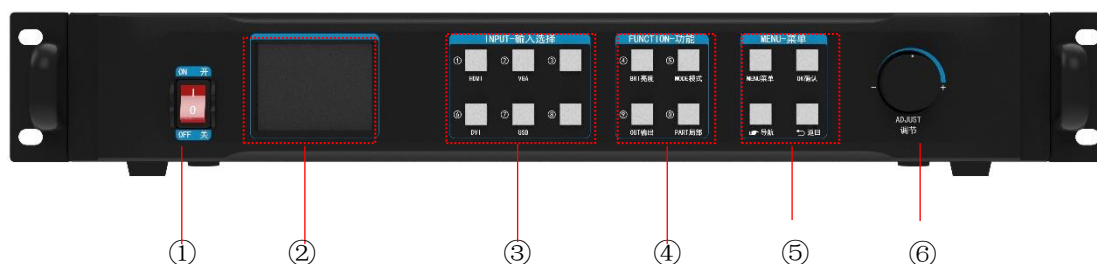
## Overview

Kystar KLS2U three-in-one controller is a two-network port three-in-one controller that integrates a professional video processor, LED sending card, and offline player for LED display solutions. One device can easily handle large screens, which greatly simplifies LED solution configuration and on-site debugging.

## Features

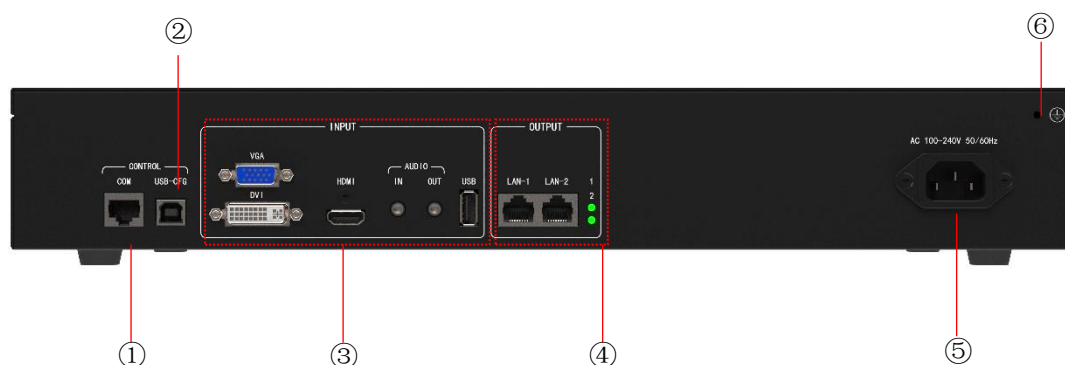
- The machine has 2 network ports, the maximum load of the whole machine is 1.3 million pixels, the width can reach 4096 pixels, and the height can reach 2000 pixels.
- Support multiple digital signal interfaces, including 1 channel HDMI1.3, 1 channel DVI-D, 1 channel VGA and 1 channel USB.
- Support direct operation without computer
- Support USB playback, perfect support for a variety of video and picture formats.
- EDID configuration management: support reading, modification and customization of EDID (Extended Display Identification Data, extended display identification data).
- Support one-key black screen/freeze function.
- Black edge removal/cutting function: solve the black edge problem generated by the front-end signal, and do arbitrary cutting for any signal source (still keep the full screen state).
- Support key lock to prevent misuse.
- The display brightness and contrast of the overall output screen can be adjusted in real time and quickly.
- Support VGA correction to solve the problem of image shift caused by unstable analog signal.

## Panel description



Serial number	Name	Function Description
①	Switch	Device power switch
②	LCD screen	Display the device setting menu and the current status of the device
③	Input selection	<ul style="list-style-type: none"> <li>● ①HDMI: Number button 1; click to switch directly to HDMI signal</li> <li>● ②VGA: Number button 2; click to switch directly to VGA signal</li> <li>● ③: Number key 3</li> <li>● ⑥DVI: Number button 6; click to switch directly to DVI signal</li> <li>● ⑦USB: Number button 7; click to switch directly to USB signal</li> <li>● ⑧: Number key 8</li> </ul> Input source status light: Steady on: The input signal connected is normal Blinking: No signal source is connected or the connected signal source is abnormal
④	Function shortcut key	<ul style="list-style-type: none"> <li>● ④Brightness: number key 4; output brightness adjustment shortcut key</li> <li>● ⑤Mode: number key 5; user mode shortcut key</li> <li>● ⑨ OUT output: number key 9; output black screen shortcut key</li> <li>● ⑩Local: number key 0; local/global switching shortcut key</li> </ul>
⑤	Menu	<ul style="list-style-type: none"> <li>● Menu: Click to enter or return to the main menu interface</li> <li>● OK: Confirm button</li> <li>● Navigation: Click to enter navigation debugging</li> <li>● Return: Click to exit the current interface</li> </ul>
⑥	knob	<ul style="list-style-type: none"> <li>● Press the knob to confirm selection</li> <li>● Rotate the knob to select menu options or adjust parameters</li> </ul>

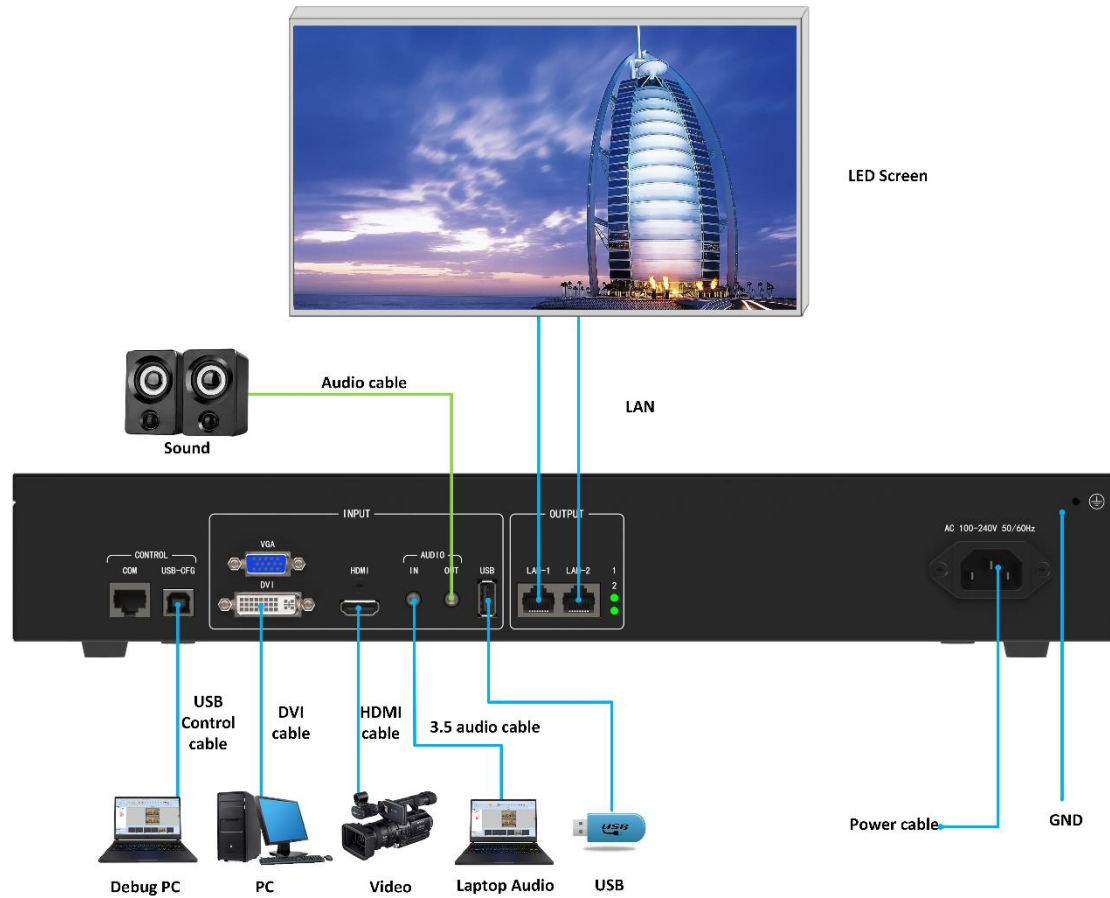
## Port specification



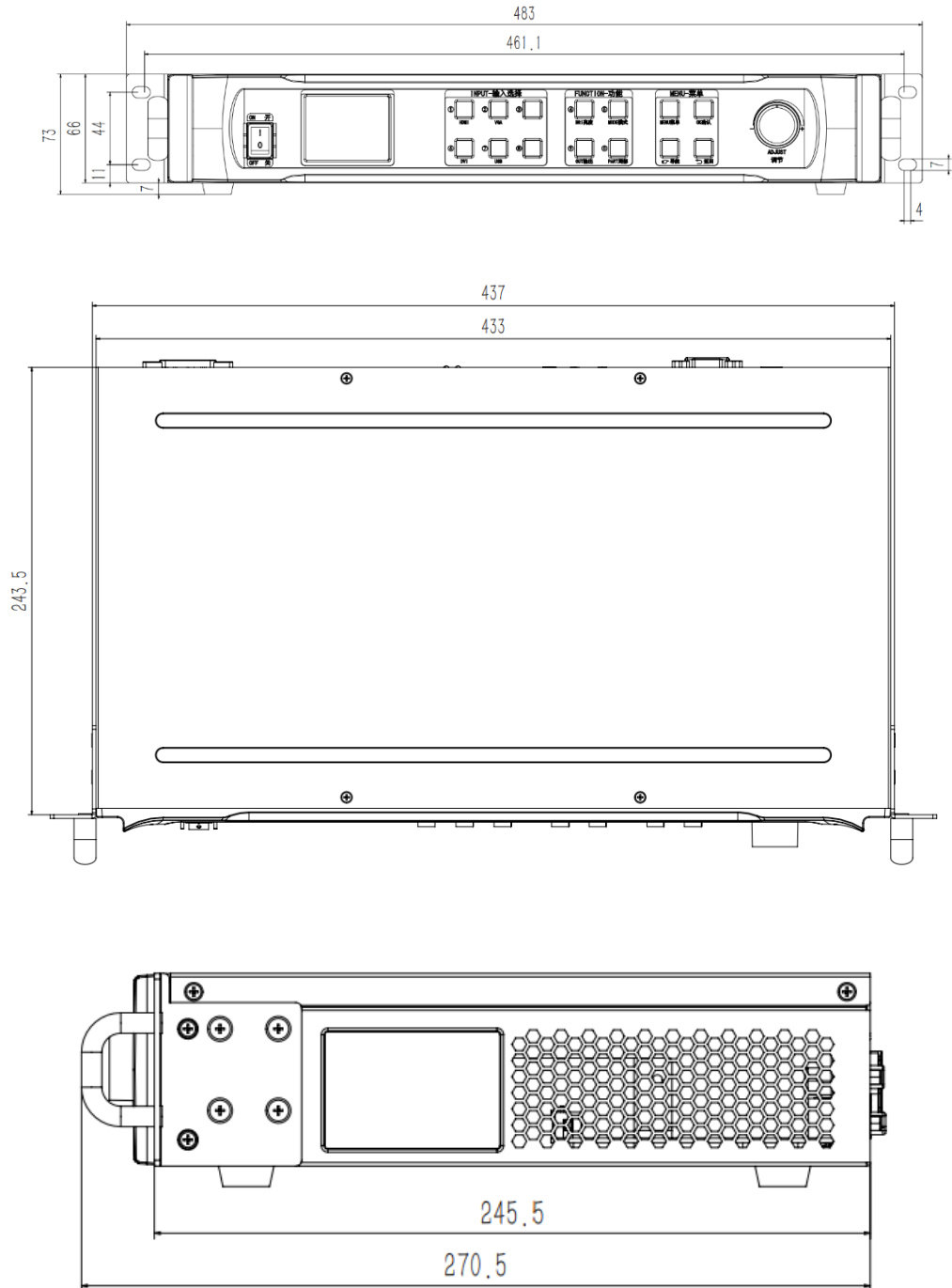
Serial number	Name	Function Description
①	COM	RJ-45 interface, used to connect the central control equipment;
②	USB-CFG	USB-CFG interface, used to connect PC host computer control
③	Input interface	<p>DVI: Maximum support 1920x1200@60Hz Support custom resolution, the widest 2048, the highest 4000 Support RGB444, YCbCr422, YCbCr444 signal format</p> <ul style="list-style-type: none"> <li>● VGA: VESA standard, maximum support 1920×1080@60Hz</li> <li>● HDMI: Maximum support 1920x1200@60Hz Support custom resolution, the widest 2048 pixels, the highest 4000 pixels Support RGB444、YCbCr422、YCbCr444signal format</li> <li>● AUDIO IN: 1/8" TRS audio input, 3.5mmstereo interface, 2.0Vp-p / 10 KΩ</li> <li>● AUDIO OUT: 1/4" TRS audio out, 3.5mmstereo interface, 2.0Vp-p / 10 KΩ</li> <li>● USB: USB input, The maximum support for NTFS system is 2T, the maximum support for FAT32 system is 192G, and the maximum for a single file is 4G</li> </ul>
④	Output Interface	<ul style="list-style-type: none"> <li>● LAN1-LAN2: Used to transfer data to receiving card -Single network port loading: 650,000 pixels -Total load: 1.3 million pixels, the widest 4096 or the highest 2000</li> </ul> <p>Network port indicator light: Blinking: Communication with the receiving card is normal Steady on: Abnormal communication with the receiving card Off: the network cable is not connected</p>
⑤	Power outlet	Connecting to AC Power 100-240V AC~50/60Hz
⑥	Ground	for equipment grounding

Machine specification	
Input power	100-240V AC~50/60Hz
Operating temperature	0-45°C
Dimensions	483×270.5×73mm (L×W×H)
net weight	4KG
Overall power consumption	25W

## Application Scenario



**Attachment: equipment size chart**



Unit: mm Unmarked linear and angular dimension tolerances comply with GB/T1804-M

**Accessories: USB audio and video playback type**

It is recommended to use AVI files, video encoding AVC, audio encoding MP3

O means supported, X means not supported			
Video codec support list			
file extension	file encapsulation	video encoding	Whether to support
*.avi	AVI	Divx	X
		XviD	O
		MPEG2	O
		<b>H.264(AVC)</b>	<b>O</b>
		MPEG-4	X
		Motion JPEG	O
*.wmv, *.asf	ASF	WMV	X
*.mp4	MP4	H.264(AVC)	O
		XviD	O
		DivX	O
		MPEG-4	O
		Motion JPEG	X
*.mkv	MKV	RealVedio	X
		AVC	O
		MPEG-4	O
		MPEG-2	O
		MPEG-1	O
*.mpg, *.mpeg	MPG, MPEG	MPEG-2	O
		MPEG-1	O
*.ts	MPEG2-TS	MPEG-2	O
		H.264(AVC)	O
*.FLV	FLV	sorenson	O
		H.264(AVC)	O
Audio codec support list			
		audio encoding	
		PCM	O
		<b>MP3</b>	<b>O</b>
		AAC	X
		HE-AAC	X
		MP2	O
		AC3	X
		WMA	X