KLS4U

Three-in-one video controller with four network ports

Version: v1.1

Release date: September 2023

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

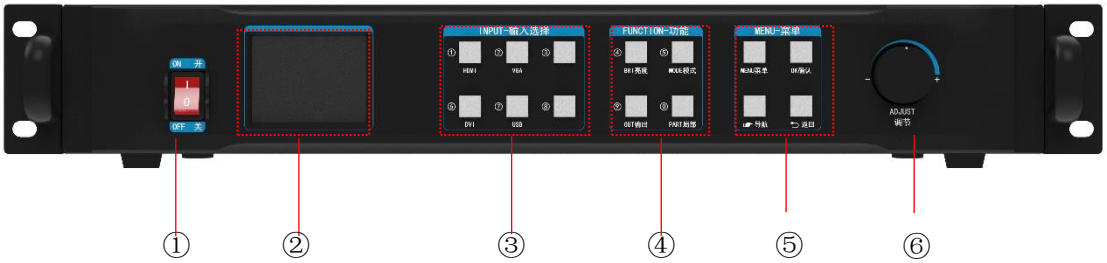
Overview

Kystar KLS4U 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

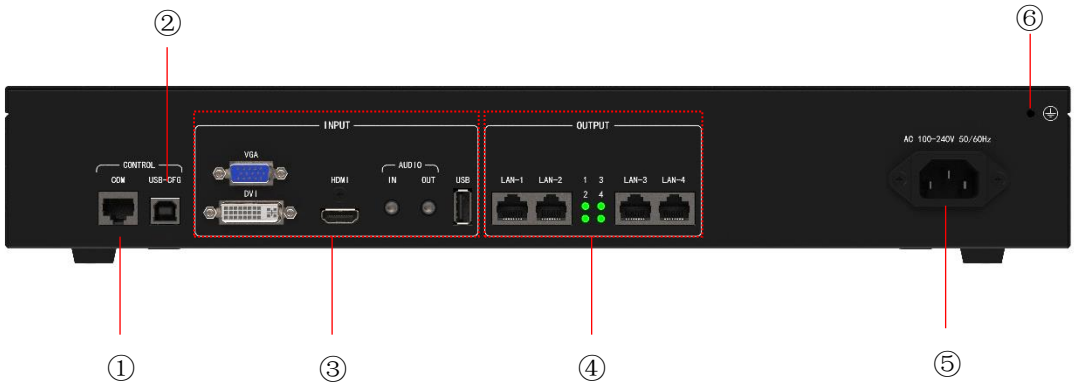
- The machine has 4 network ports, the maximum load of the whole machine is 2.5 pixels pixels, the width can reach 4096 pixels, and the height can reach 1200 pixels.
- Support multiple digital signal interfaces, including 1 channel HDMI1.3, 1 channel DVI-D, 1 channel VGA and 1 channel USB.
- Support 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	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	● ①HDMI：Number button 1; click to switch directly to HDMI signal ● ②VGA：Number button 2; click to switch directly to VGA signal ● ③：Number key 3 ● ⑥DVI：Number button 6; click to switch directly to DVI signal ● ⑦USB：Number button 7; click to switch directly to USB signal ● ⑧：Number key 8 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	● ④Brightness: number key 4; output brightness adjustment shortcut key ● ⑤Mode: number key 5; user mode shortcut key ● ⑨ Output: number key 9; output black screen shortcut key ● ⓪Local: number key 0; local\global switching shortcut key
⑤	Menu	● 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	● Knob to confirm selection ● Rotate the knob to select menu options or adjust parameters

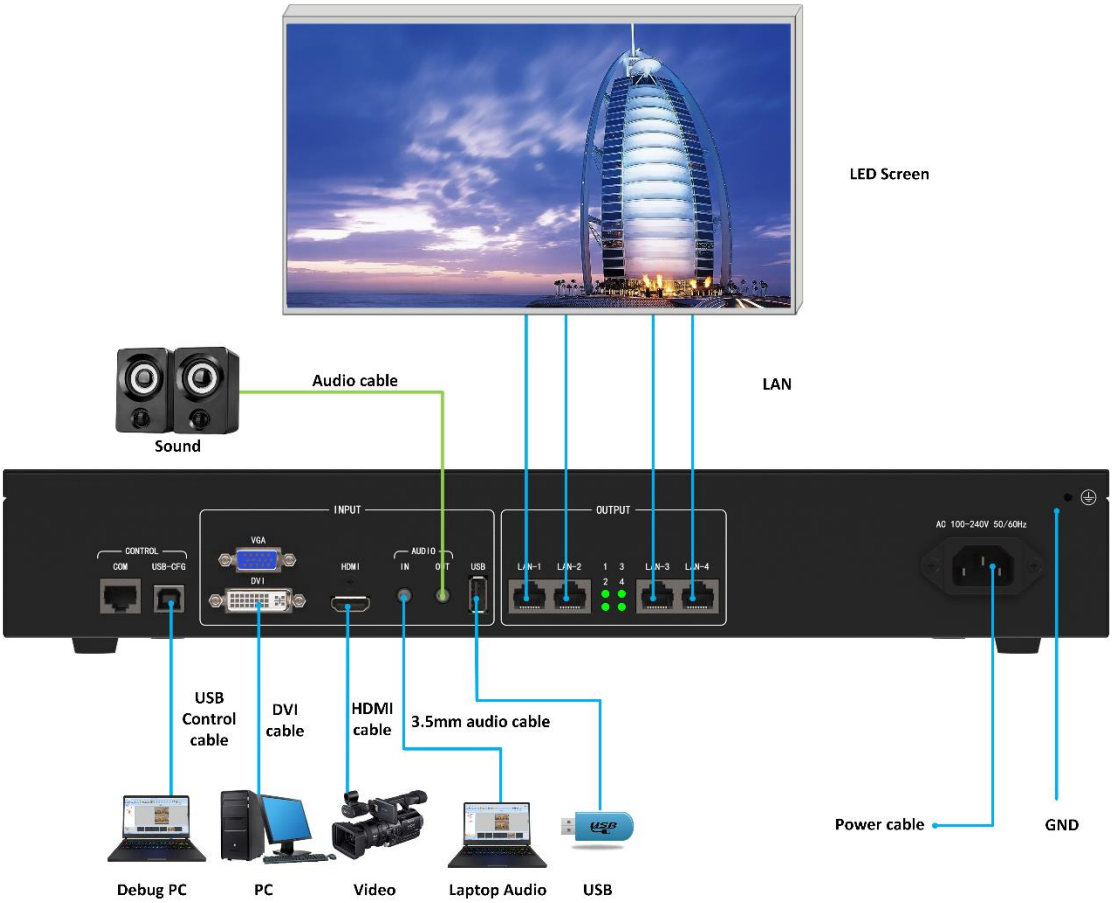
Port specification



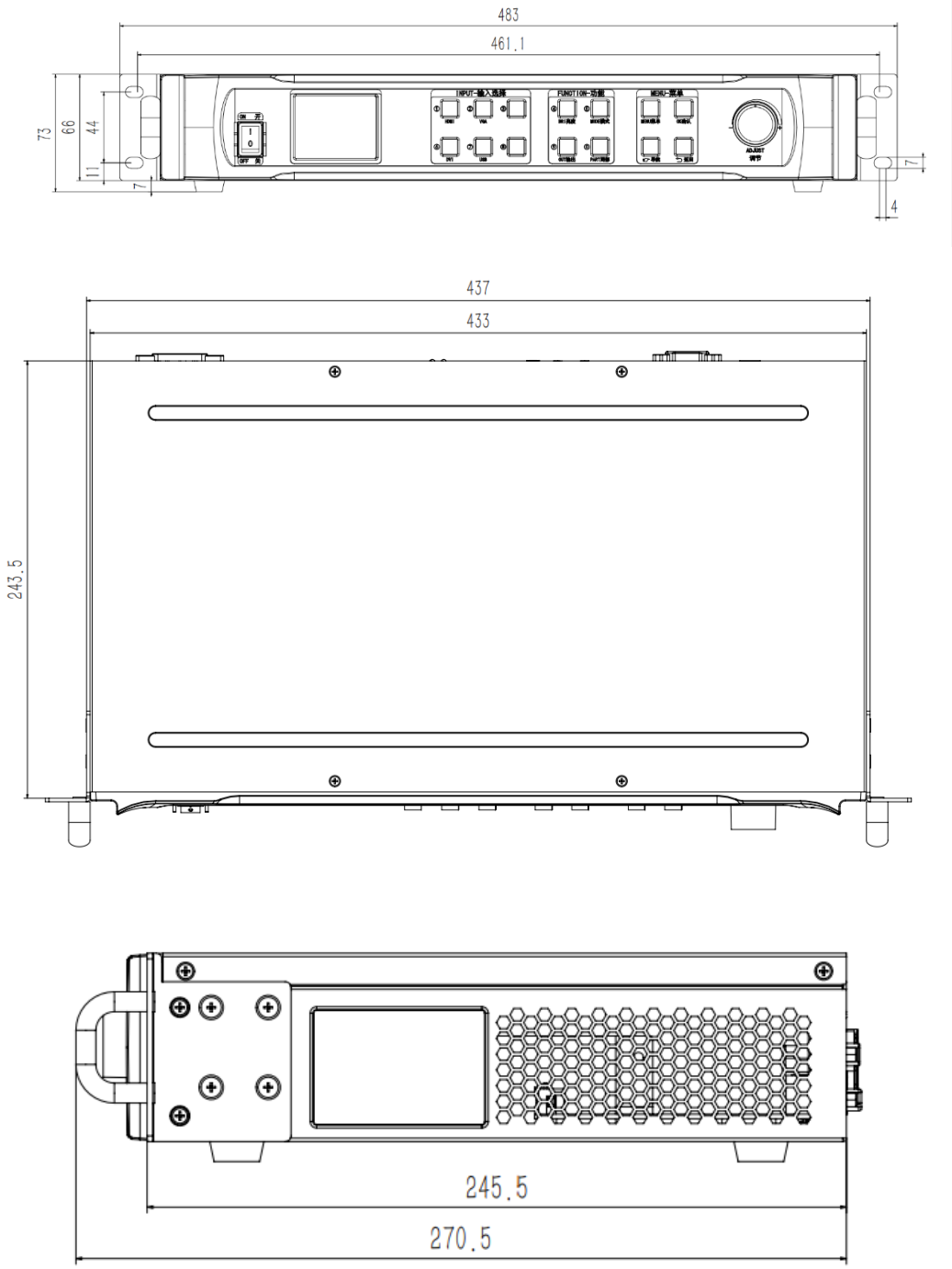
Serial	Name	Function Description
①	COM	RJ-45 interface, used to connect the central control equipment;
②	USB-CFG	USB-CFG interface, used to connect PC host computer control
③	Input interface	DVI：Maximum support 1920x1200@60Hz Support custom resolution, the widest 2048, the highest 4000 Support RGB444, YCbCr422, YCbCr444 signal format ● VGA：VESA standard, maximum support 1920×1080@60Hz ● HDMI：Maximum support 1920x1200@60Hz Support custom resolution, the widest 2048 pixels, the highest 4000 pixels Support RGB444、YCbCr422、YCbCr444 signal format ● AUDIO IN： 1/8" TRS audio input，3.5mmstereo interface，2.0Vp-p / 10 KΩ ● AUDIO OUT： 1/4" TRS audio out，3.5mmstereo interface，2.0Vp-p / 10 KΩ ● 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
④	Output Interface	● LAN1-LAN4：Used to transfer data to receiving card -Single network port loading: 650,000 pixels -Total load: 2.5 million pixels, the widest 4096 pixels or the highest 1200 pixels 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
⑤	Power outlet	● Connecting to AC Power 100-240V AC~50/60Hz
⑥	Ground terminal	for equipment grounding

Machine specification	
input power	100-240V AC~50/60Hz
Operating temperature	0-45℃
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
		H.264(AVC)	**O**
		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
		MP3	**O**
		AAC	X
		HE-AAC	X
		MP2	O
		AC3	X
		WMA	X