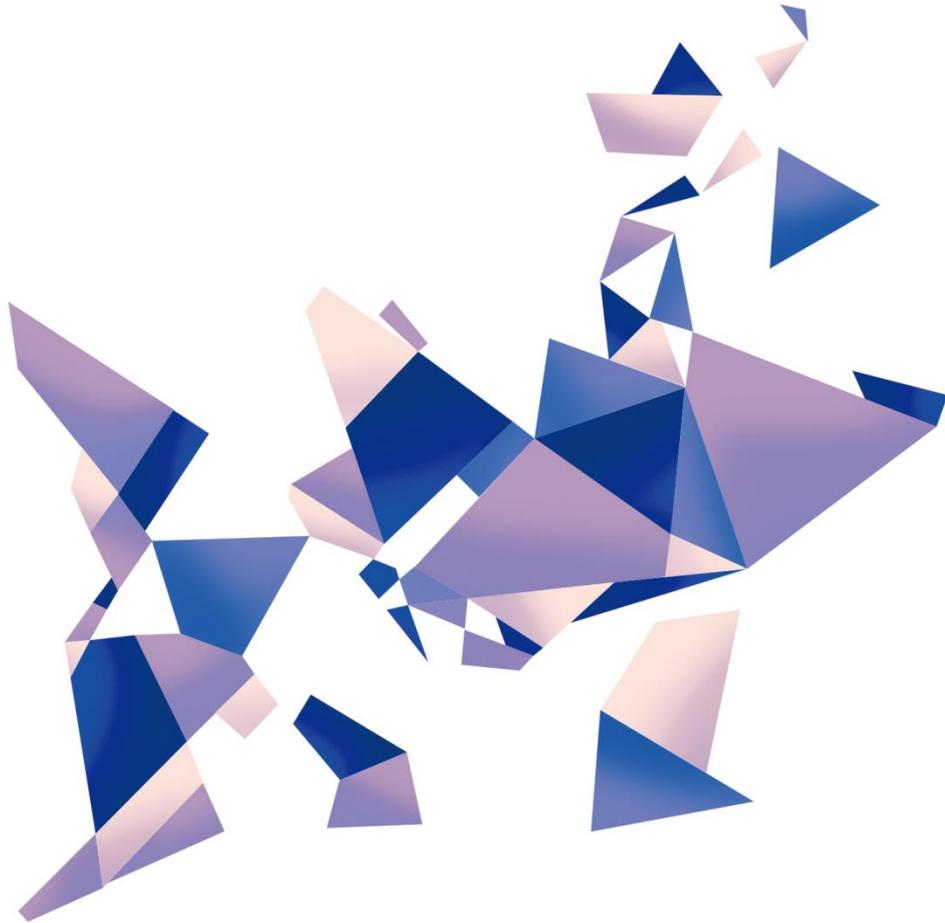


KSA4

Intelligent Control Server

Version: v1.1

Release date: November 2022



Specifications



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Beijing KYSTAR Technology Co., Ltd.

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

Version record

version number	change details	Release time
V1.0	first release	2022.07.25
V1.1	Modify some parameters and redesign the chassis	2022.11.18

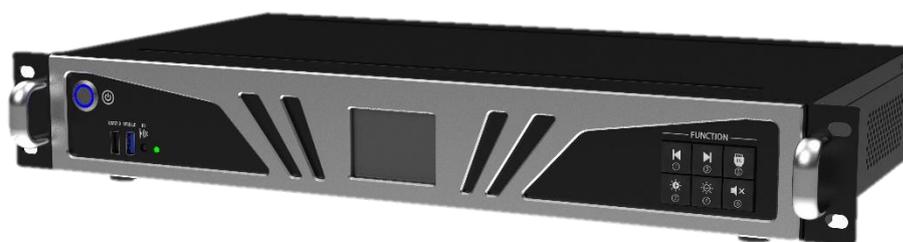
Intelligent control server KSA4 product specification

Overview

Kystar intelligent control server KSA4 is an integrated system that integrates functions such as sending card, video processor, media play software and Kares cloud service.

The system supports various types of external video input interfaces (5 channels HD interfaces includes digital and analog), and can mix and edit external signals and internal materials. Four LED gigabit network ports and one HDMI interface output, can be connected to an external display, connected to peripherals such as a USB keyboard and mouse, can be used as a microcomputer server for editing and playback operations, and can also be controlled by PE, mobile terminal, Kares, etc. The terminal sends the program and can control the playback.

Support dual-screen different display, editing and playback do not interfere with each other; support remote control, simple and fast.



Features

- The device integrates 4 Gigabit Ethernet port outputs, no external sending card is required, and it can support all series of Kystar receiving cards;
- Equipped with Kommander OS system and professional multimedia processing capabilities, it can easily complete the playback and visual arrangement of high-definition video, audio, pictures and other media files;
- Can access DVI*1, HDMI*3 multiple external signals;
- Support external signal source and internal material for mixed editing. Seamless switch for inputs /outputs;
- Support visual wireless control of mobile phone and tablet APP, and support WIFI STA and WIFI AP dual mode to work at the same time, as a WIFI hotspot and access to other wireless networks at the same time;
- The software supports different ways of network port communication and wireless WIFI communication to control the connection with peripherals;
- Support to quickly import materials through U disk;
- Timing brightness adjustment, support external brightness sensor, can realize automatic adjustment of screen brightness with the environment;
- It can access the Kares cloud publishing system through wired network, WIFI, 4G and other ways to realize remote multi-network cluster control;

- Support editing and saving multiple programs, and set the playing time plan to realize unattended playback;
- The main and side screens are differently displayed, and the program editing does not affect the playback output at the same time, real-time operation;
- Support remote control operation, simulated TV remote control operation, easy to use, fast switching;
- Support PPT playback with special effects;
- Support wireless projection function.

Panel description
front panel



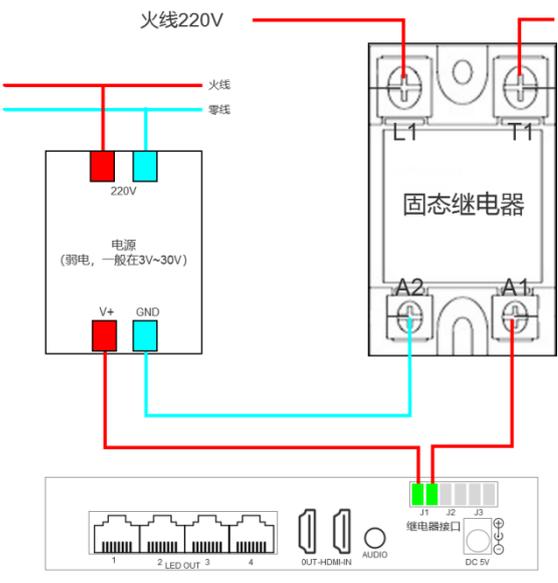
Serial number	Function Description
1	USB interface, 2.0*1, 3.0*1
2	Infrared remote control receiver
3	Indicator light, the green light is always on in normal operation, and the red light is always on in standby
4	Switch button
5	Full color LCD information screen
6	Program switching, brightness+, brightness-, input signal switching, mute

Rear panel



Signal input port		
Type	Quantity	Specification
DVI-D (24+1)	1	·Maximum supported resolution is 1920×1080@60Hz, backward compatible ·Compatible with HDMI1.3 and below version, EDID version 1.3
HDMI(TYPE A)	3	·Maximum supported resolution is 1920×1080@60Hz, backward compatible ·Compatible with HDMI1.3 and below version, EDID version 1.3

output port		
Type	Quantity	Specification
LAN (lan port)	4	4 Gigabit Ethernet port outputs, can support all series of Kystar receiving cards, no need for external sending cards
HDMI(TYPE A)	1	The resolution is 1920×1080@60Hz, and an external display can be used as the operation control interface.
1/8" TRS audio	1	3.5mm stereo jack, 2.0Vp-p / 10 KΩ

Other interface		
Type	quantity	Specification
USB	1	USB2.0*1 3.0*1, external U disk, mouse keyboard and other peripherals
NET	1	Gigabit networking interface for connecting to the network
J1-J3	3	<p>Relay interface, can control external power switch</p> <p>DC: maximum voltage 30V, maximum current 3A</p> <p>AC: maximum voltage 250V, maximum current 3A</p> <p>Note: It is recommended to use DC power. It is not recommended to directly control AC power with relays. If you need to control AC power, it is recommended to use the wiring method as shown in the figure below.</p> 
WIFI	2	Dual-band WIFI antenna interface, supporting 2.4G and 5G signals at the same time
IR	1	RS485 interface, can be used for external infrared extension module (module needs to be purchased separately)
RS232	1	RS232 interface, can be used for external GPS module (module needs to be purchased separately)
RS485	1	RS485 interface, which can be used for external brightness/temperature and humidity sensor interface (module needs to be purchased separately)
4G	1	4G antenna interface
SIM	1	SIM card slot, full Netcom, support three major operators

Specifications

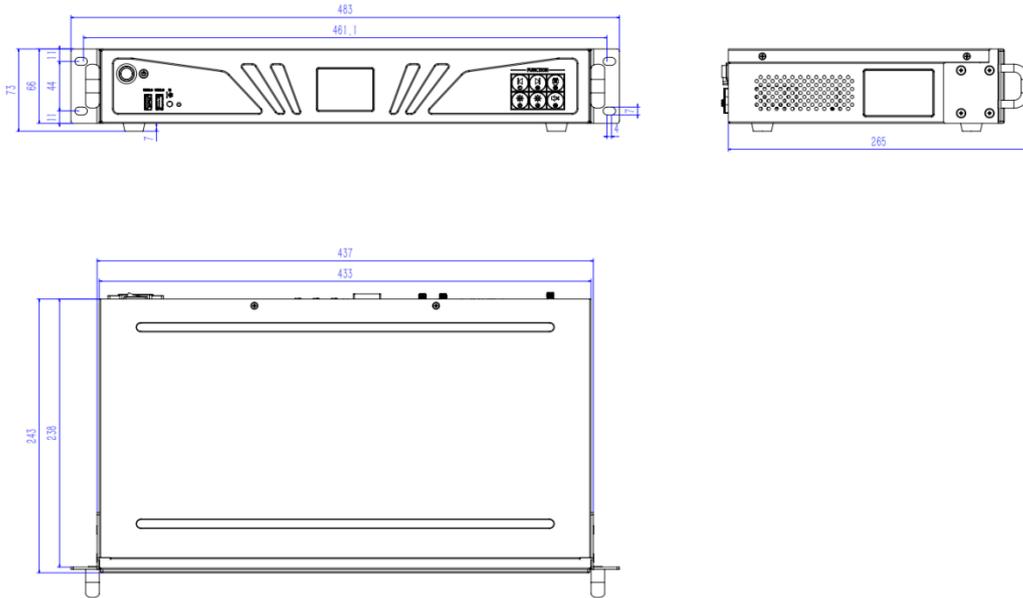
Performance parameter	
Hardware performance	4-core A55 ARM processor, clocked at 1.8GHz. – Support H.264, H.265 4K@60Hz video decoding
Storage	Built-in 32GB storage (users can use 25G), support TF card to expand ROM
load size	Single network port 650,000 pixels, the whole machine 2.35 million pixels (maximum 2.6 million), the widest 8000 pixels, the highest 3840 pixels
WIFI connection distance	20m (no occlusion)

Supports multimedia formats	
Video format	AVI,WMV,MPG, RM/RMVB, VOB,MP4,FLV and other common video formats; Can support multi-video playback at the same time
Audio format	MPEG-1 Layer III, AAC etc.
Image format	Support bmp、 gif、 jpg、 png etc
text form	Single-line text, static text, multi-line scrolling text, office, etc.
Clock	Real-time clock, multi-regional clock display and management
OSD	Support 32bit true color OSD, can be displayed in any position, support video/text mixing, can superimpose graphics on video.

Machine specification	
Dimensions	1.5U standard chassis
Supported receiving cards	Kystar full range of receiving cards
Input Adapter Power	AC 100-240V power
rated power	30W
Operating temperature	-20°C -60°C
Working humidity(%)	5%-95%

appendix:

Equipment Dimensions



Remote Control Instructions

