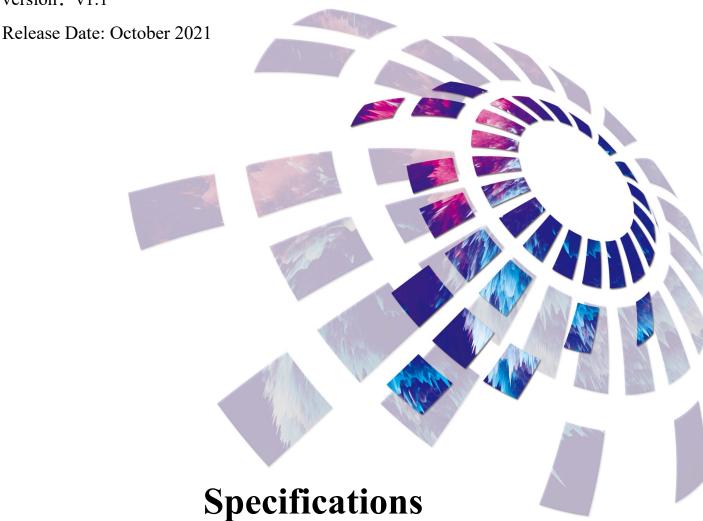
KLS12

Twelve ports 2-in-1 video controller

version: v1.1







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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	nber Change details	
V1.0 first release		2021.08.02
V1.1	Modify the cover	2021.10.25

Overview

KYSTAR LS12 two-in-one controller, with 12 network port output, the maximum load of the whole machine is 7.8 million pixels, adopts pure hardware FPGA architecture, can run continuously for 365×24 hours, and meets the configuration requirements of small-pitch applications for large-screen control systems

Features

- Single machine has 12 network ports, a single network port can load 650,000 pixels, and the
 whole machine can load a maximum of 7.8 million pixels, the width can reach 12,000 points,
 and the height can reach 4,000 points.
- Support multiple digital signal interfaces, including 1 DP1.1, 1 HDMI1.3 and 4 DVI-D input sources.
- Support 3 screen display, screen position arbitrary layout.
- All layers support matting, transparency adjustment, showing the best results.
- When switching between different signals, it supports a variety of special effects, including
 fade in and fade out, up and down left and right screen, diagonal up and down screen, circular
 cut-out cut-in, diamond cut-out cut-in, comb-shaped switching.
- Support signal source hot backup.
- Can set input and output signals monitor mode.
- EDID configuration management: Supports reading, modification and customization of EDID (Extended Display Identification Data).
- Support one-click black screen/static function.
- Black edge removal/cutting function: solve the black edge problem caused by the front-end signal, and do any cutting for any signal source (still keep the full screen state)
- Support key lock to prevent misoperation.
- The brightness and contrast of the overall output screen 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 video and enhance the performance of image details, so that
 ordinary videos have HDR effects.

Panel description



Serial number	Function Description	
1)	Full color LCD information screen	
2	Parameter settings	
3	Function load area	
4	Signal source fast and preset save and call area	

Port specifications



Input port		
Туре	quantity	Specification
DVI	4	Maximum support 1920×1080@60Hz; support custom input resolution,
		maximum width 2048, maximum 1152.
HDMI	1	HDMI1.3 standard, maximum support 1920×1080@60Hz; support
		custom input resolution, maximum width 2048, maximum 1152.
DP	1	DisplayPort 1.1 standard, maximum support 1920×1080@60Hz; support
		custom input resolution, maximum width 2048, maximum 1152.

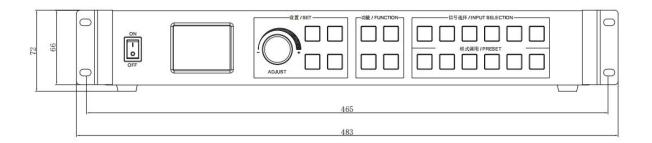
Output port	utput port		
type	quantity	Specification	
LAN (1~12)	12	LAN port, used to transmit data to the receiving card, with a maximum	
		load of 7.8 million	
HDMI (MONITOR)	1	Support resolution 1920×1080@60Hz	

Control port		
type	quantity	Specification
USB (Type-B)	1	USB-CFG interface, used to connect PC upper computer control
RJ11 (RS-232)	1	The data transfer rate is 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 (BT)
RJ-45	1	100M, used to connect to PC upper computer control

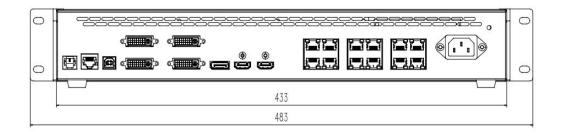
Whole machine specification	hole machine specification		
Input power	100-240V AC~50/60Hz		
Operating temperature	0-45°C		
Dimensions	483×322×72mm (L×W×H)		
net weight	4KG		

Whole	machine	power	60W
consumptio	n		

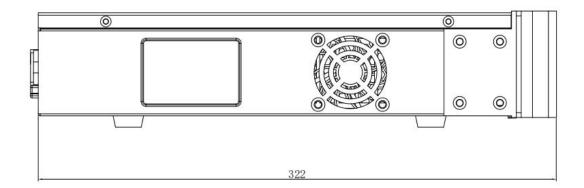
Attachment: equipment size chart



Front panel size drawing



back panel size chart



Side size drawing