# **ES16**

# LED sending controller

Version: v1.4

Release Date: November 2021



## **Specification**





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

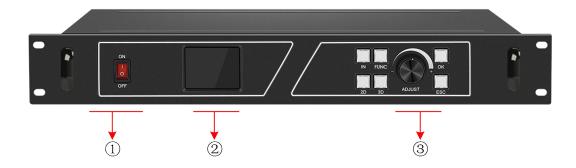
### Summary

KYSTAR ES16 sending card is a master control card that supports large load. It has 18 GIGABit output network ports and supports the maximum resolution 4096\*2160@60Hz or 7680\*1080@60Hz, and the resolution can be customized, with a maximum width of 8000 pixels and a maximum width of 4000 pixels, meeting the configuration requirements of the ultra-large screen for small space applications, mainly used in rental and ultra-large screen fixed installation fields, such as concerts and stadiums.

#### Functional characteristics

- Supports a variety of digital signal interfaces, including 1 channel DP1.2,1 channel HDMI2.0 and 4 channel DVI-D input sources.
- Support a maximum load of 10 million pixels.
- Support 18 gigabit network ports.
- Support HDMI2.0 loop out, loop out HDMI input or DP input.
- Support the maximum input resolution is 4096\*2160@60Hz or 7680\*1080@60Hz.
- Support viewing the input signal resolution and number of received cards on the LCD screen of the front panel.
- Support EDID management.
- Support one-click switch between 2D and 3D.
- Cascaded multiple devices for unified control.
- Support brightness and color temperature adjustment.
- Support low light and high gray.
- Support the Kystar Frame Synchronization (KFS) multi-server Frame Synchronization technology. Together with the Kommander server, Kystar Frame Synchronization (KFS) enables multiple servers to carry large screens of more than 16K point-to-point and ensure complete Frame Synchronization.
- Support SDR to HDR image optimization technology, which can improve the contrast of ordinary SDR videos, enhance the image details, so that ordinary videos have HDR effect.

### Panel description



Serial number	Function description	
1)	Power switch	
2	LCD display	
3	Function switching area	

### Port specification



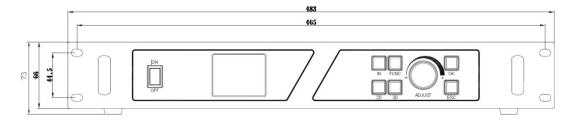
Input port					
Туре	Number	Specifications			
DVI	4	DVI-D input, support custom input resolution			
DP1.2	1	Supports the maximum resolution 4096*2160@60Hz or 7680*1080@60Hz			
HDMI2.0	1	Supports the maximum resolution 4096*2160@60Hz or 7680*1080@60Hz			
SYNC-IN	1	KFS synchronous signal input			

Output port					
Туре	Number	Specifications			
LAN	18	Single-port loading has a maximum of 655360 pixels			
HDMI2.0	1	HDMI2.0 loop out. HDMI2.0 input or DP1.2 input is supported			
3D-SYNC	1	3D synchronization signal output			
SYNC-OUT	1	KFS synchronous signal output			

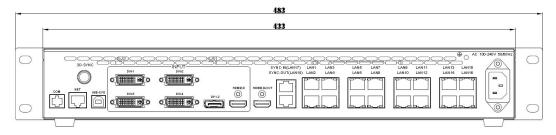
Control port				
Туре	Number	Specifications		
COM	1	Communicate with upper computer software to control sending card		
NET	1	Communicate with upper computer software to control sending card		
USB-CFG	1	Communicate with upper computer software to control sending card		

Specification for whole machine		
Input power supply	AC 100-240V 50/60Hz	
Working temperature	0-45°C	
Outline size	483×325×73mm (L×W×H)	
Net weight	5KG	
Overall power consumption	80W	

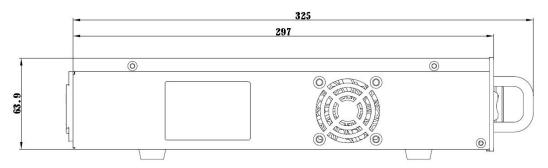
### Annex: Equipment Dimension Map



### Front panel size(mm)



### Back size(mm)



Side size(mm)