

# X16E LED Video Controller

Specification V1.1





### Overview

X16E is a controller possessing powerful video signal input and processing capacity. It supports 4K inputs with DP 1.2 and HDMI 2.0 ports, and 2K inputs with HDMI 1.4 and DVI ports, and the multiple signals can be seamlessly switched. Equipped with 16 Gigabit Ethernet ports, the controller can greatly meet your different demands. Additionally, X16E boasts abundant practical functions that enable flexible screen control and high-quality image display.

#### **Features**

- Input ports:  $1 \times DP$  1.2,  $1 \times HDMI$  2.0,  $2 \times HDMI$  1.4,  $2 \times DVI$ .
- Loading capacity: 10.48 million pixels, maximum 16384 pixels in width or maximum 8192 pixels in height.
- Input resolution: up to 4096×2160@60Hz, supporting customized setting.
- Output ports: 16×Gigabit Ethernet port.
- Video source switching, cropping, splicing and scaling.
- Up to 6 windows, of which the location and size can be freely adjusted.
- Precise color management and display gamut adjustment.
- Video sync.
- Separate audio input and output.
- Analyzing and outputting the audio signals of HDMI and DP inputs.
- LAN control.
- Control via hand-held terminal (app).
- RS232 protocol control.
- 3D (optional).
- HDCP (Only HD interface support).
- Brightness and color temperature adjustment.



### Hardware

### Front panel



Item	Function		
LCD	Display the operation menu and system information.		
Knob	Turn the knob to select an item or adjust the parameter.		
KIIOD	• press the knob to confirm your selection or adjustment.		
Function Keys	OK: Enter key.		
	Bright: Brightness adjustment.		
	ESC: Exit the current menu or operation.		
	Black: Blackout.		
	• Lock: Lock all the keys of the front panel.		
	Freeze: Freeze the image.		
Mode Keys	HDMI1 / DP / HDMI2 / HDMI3 / DVI1 / DVI2: Video source		
	selection keys.		
	Signal: View the signals.		
	Mode: Presets scene switches, which can be switched by knob or		
	button row.		
	• 1~7: Presets scene quick selection button.		
Power Switch	Switch the device on or off		

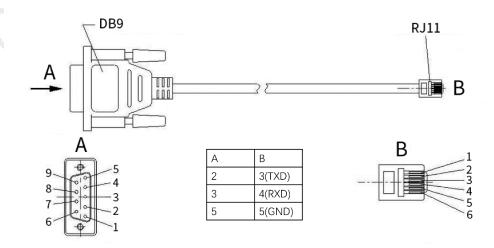
# Rear panel





$1 \times$ HDMI 2.0		
1× DP 1.2		
2× HDMI 1.4		
2× DVI		
RJ45, 16× 1 Gigabit Ethernet port		
Network control (communication with PC, or access network)		
RJ11(6P6C)*, connect to the third party device		
USB output, for cascading with the controller		
USB input, connecting to PC for debugging		
Connect to the 3D emitter		
Audio input, for inputting audio signals from the computer or other devices		
Audio output, for outputting audio signals to the speaker (Support outputting the audio signals of HDMI and DP)		
187		
AC power connector, AC 100~240V, containing a built-in fuse		

<sup>\*</sup> DB9 female to RJ11(6P6C) cable:





# **Device Specifications**

Model		X16E	
Size		2U	
Electrical Specifications	Input Voltage	AC100~240V, 50/60Hz	
	Power	50W	
	Consumption		
Operating	Temperature	-20°C~70°C/-4°F~158°F	
Environment	Humidity	0%RH~80%RH, non-condensing	
Storage Environment	Temperature	-30°C~80°C/-22°F~176°F	
	Humidity	0%RH~90%RH, non-condensing	
Device Specifications	Dimensions	W×H×L/482.6mm×103.0mm×415.1mm/19"×4.1	
	Diffictions	"×16.3"	
	Net Weight	4.8kg/10.58lbs	
Packing Specifications	Dimensions	W×H×L/525.0mm×150.0	
	Difficusions	mm×495.0mm/20.7"×5.9"×19.5"	
	Net Weight	1.8kg/3.97lbs	



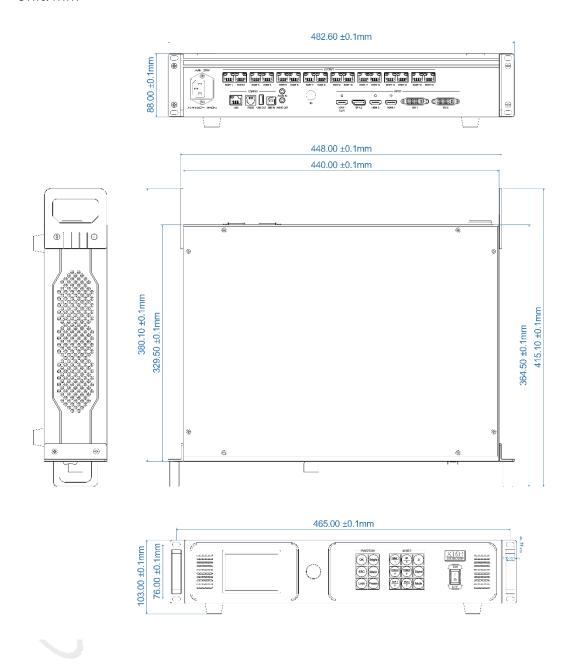
# **Technical Specifications**

	(A) HDMI 2.0 specification, EIA/CEA-861 standard				
Standard	Backward compatible with HDMI 1.4 and HDMI 1.3				
Input	Format		Maximum Input Resolution		
	8bit	RGB444	4096×2160@60Hz		
		YCbCr444			
		YCbCr422			
	Frame Rate 23.98/24/25/29.97/3		30/50/59.97/60/120/144Hz		
	Support audio input				
DP 1.2					
Standard	DP 1.2 specific	fication, support EDID			
	Format		Maximum Input Resolution		
	8bit	RGB444			
Input		YCbCr444	4096×2160@60Hz		
Прис		YCbCr422			
	Frame Rate 23.98/24/25/29.97/30/50/59.97/60/120/144Hz		0/50/59.97/60/120/144Hz		
	Support audio input				
<b>HDMI 1.4</b>					
Standard	HDMI 1.4 specification, HDCP1.4 compliant				
	Format		Maximum Input Resolution		
	8bit	RGB444	1920×1200@60Hz		
Input		YCbCr444			
		YCbCr422			
	Frame Rate 23.98/24/25/29.97/30/59.97/60Hz/120/144Hz				
	Support audio input				
DVI					
Standard	HDCP1.4 compliant				
	Format		Maximum Input Resolution		
	8bit	RGB444	1920×1200@60Hz		
Input		YCbCr444			
		YCbCr422			
	Frame Rate	23.98/24/25/29.97/30/50/59.97/60Hz/120/144Hz			



# **Reference Dimensions**

Unit: mm



#### **Statement**

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