



# X16 Controller

Specification

## **X16**

### **Overview**

X16 is a professional LED display controller. It possesses powerful video signal receiving, splicing and processing capacities, and supports multiple signal inputs, in which the maximum input resolution is 4K@4096×2160 pixels. It supports digital ports (HDMI, DVI, SDI), and seamless switching between signals. It supports splicing, broadcast quality scaling, and seven-pictures displays.

X16 adopts 16 Gigabit Ethernet outputs, and it supports large LED displays of 8192 pixels in maximum width/height. Meanwhile, X16 is equipped with a series of versatile functions which can provide flexible screen control and high-quality image displays. It can be perfectly applied to high-end rental displays and high-resolution LED displays.

### **Features**

- Supports various digital signal ports, including 1×HDMI 2.0, 4×DVI, 2×SDI
- Supports input resolutions up to 4096×2160@60Hz
- Loading capacity: 8.88 million, maximum width/height: 8192 pixels
- Supports arbitrary switching of video sources; the input images can be spliced and scaled according to the screen resolution
- Supports seven-pictures displays, the location and size can be adjusted freely
- Supports HDCP 2.2
- Dual USB2.0 for high speed configuration and easy cascading among controllers
- Supports brightness and chromaticity adjustments
- Supports improved gray-scale performance at low brightness
- Compatible with all receiving cards, multifunction cards, and optical fiber transceivers of Colorlight

## Hardware

### The Front Panel



No.	Name	Function
1	3.5-inch LCD	Displays the operation menu and system information
2	Knob	Turn knob to select or adjust
3	Function Keys	OK: Enter key ESC: Escape current operation or selection Bright: Brightness option Black: Blank screen Lock: Lock keys
4	Selection Keys	HDMI/DVI1/DVI2/DVI3/DVI4/SDI1/SDI2: Video source selection Mode: Output mode selection of images Freeze: Freeze screen
5	Power Switch	Power switching for equipment

The Back Panel



Input Interface		
1	HDMI	HDMI 2.0 input, EIA/CEA-861 Standard, in accordance with HDMI 2.0 standard, supports 4096×2160@60Hz, supports HDCP
2	DVI	4 DVI inputs, VESA Standard (support 1920×1200@60Hz), supports HDCP
3	SDI	2 SDI-3G inputs, 1920×1080P
Output Interface		
1	Port1-16	RJ45, 16 Gigabit Ethernet outputs
Controlling Interface		
1	LAN	Network control (communication with PC, or access network)
2	USB IN	USB input, which connects with PC to configure parameters
3	USB OUT	USB output, cascading with the next controller
4	Genlock	Genlock signal input ensures synchronism of display image
5	Genlock Loop	Genlock synchronous signal loop output
Power		
1	AC 100~240V	AC Power Interface

4K Input Boards (Optional)

- X16 (Standard): 1×HDMI 2.0 + 4×DVI
- X16B (Customized): 8×DVI
- X16C (Customized): 2×HDMI 2.0

## Specifications

Size	2U standard box
Input voltage	AC 100~240V
Rated Power Consumption	80W
Working Temperature	-20°C~60°C
Weight	6.8kg

## Dimension

Unit: mm

