



# X16 PRO Controller

Specification

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## Overview

X16 PRO is a professional LED display controller. It possesses powerful video signal receiving, splicing and processing capacities, and supports multiple signal inputs up to 4096×2160 pixels. It supports HDMI, DP, DVI and SDI, and seamless switching between signals. It supports splicing, broadcast quality scaling, and 7 PIPs.

X16 PRO adopts 16 Gigabit Ethernet outputs, and it supports large LED displays of 8192 pixels in maximum width and 4096 pixels in maximum height. Meanwhile, X16 PRO 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 HDMI2.0, DP1.2, SDI, DVI
- Supports input resolutions up to 4096×2160@60Hz
- Loading capacity: 10.4 million, maximum width: 8192 pixels, maximum height: 4096 pixels
- Supports arbitrary switching of video sources; the input images can be spliced and scaled according to the screen resolution
- Supports 7 PIPs, the location and size can be adjusted freely
- Supports HDCP 2.2
- Supports 3D (optional)
- Dual USB2.0 for high speed configuration and easy cascading among controllers
- RS232, used to communicate via 3<sup>rd</sup> party interfaces
- Supports brightness and color temperature adjustment

- Supports better gray at low brightness
- Supports controlling with a handheld terminal via an app
- 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	1/2/3/4/5: Preset parameter selection Mode: Output mode selection of images F1/F2/F3: Interface selection
5	Power Switch	Power switching for equipment

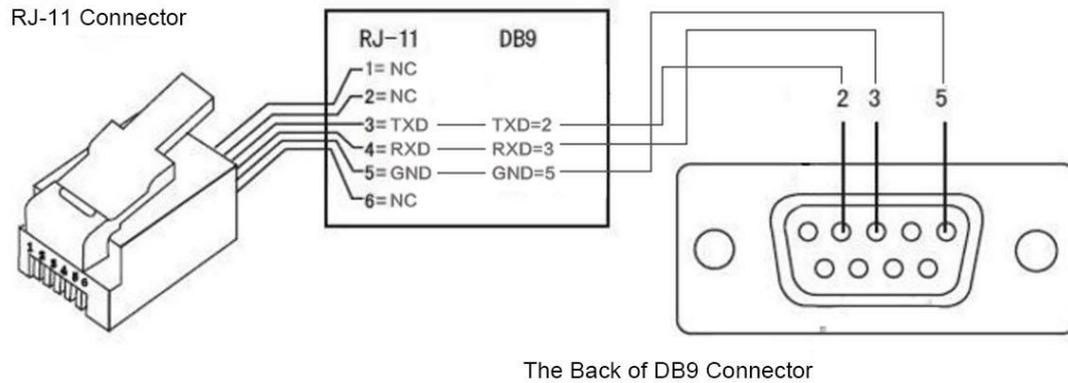
## The Back Panel



Input Interface			
1	HDMI 2.0	1×HDMI 2.0+LOOP	Only one can be set as an input at a time.
2	DP 1.2	1×DP1.2	
3	DVI	2×DVI	
4	HDMI 1.4	2×HDMI1.4	
5	SDI	2×SDI	
Output Interface			
1	Port1-16	RJ45 , 16 Gigabit Ethernet outputs, which can be arbitrarily spliced	
Controlling Interface			
1	LAN	Network control (communication with PC, or access network)	
2	RS232	RJ11 (6P6C) interface , used to communicate via 3 <sup>rd</sup> party interfaces	
3	USB IN	USB input, which connects with PC to configure parameters	
4	USB OUT	USB output, cascading with the next controller	
5	GENLOCK	Genlock signal input ensures synchronism of display image	
6	GENLOCK LOOP	Genlock synchronous signal loop output	
7	3D sync	Connect to 3D emitter (optional)	
Power			
1	AC 100~240V	AC Power Interface	

\*RJ11 and DB9 Conversion

Circuit Connection Diagram



## Specifications

### 4K input board optional

#### 1) HDMI/DP input board

Input signal	1×HDMI2.0+LOOP, 1×DP1.2 Only one of them will be working at the same time	
Standard	HDMI: EIA/CEA-861 standard, HDMI-2.0 compliant, HDCP2.2 compliant DP: DP-1.2 standard and HDCP1.3 compliant	
Input resolution	1920×1080@60Hz	8bit: supports RGB444 , YCbCr444 , YCbCr422, YCbCr420
	4096×2160@60Hz	8bit: supports RGB444 , YCbCr444 , YCbCr422, YCbCr420

**2) HDMI/DVI input board**

Input signal	2×HDMI 1.4, 2×DVI 1.0
Standard	HDMI: EIA/CEA-861 standard, HDMI 1.4 compliant, HDCP 1.4 compliant DVI: VESA standard, HDCP 1.4 compliant
Input resolution	1920×1080@60Hz 8bit supports RGB444, YCbCr444, YCbCr422, YCbCr420

**Specification of Complete Machine**

Size	2U standard box
Input Voltage	AC 100~240V
Rated Power Consumption	70W
Working Temperature	-20°C~60°C
Weight	9kg

## Dimensions

Unit: mm

