



X16 PRO

Controller

Specification V1.2

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

- Support various digital signal ports, including HDMI2.0, DP1.2, SDI, DVI
- Support input resolutions up to 4096×2160@60Hz
- Loading capacity: 8.88 million, maximum width: 8192 pixels, maximum height: 4096 pixels
- Support arbitrary switching of video sources; the input images can be spliced and scaled according to the screen resolution
- Support 7 windows, the location and size can be adjusted freely
- Support HDCP
- Support 3D (optional)
- Support RS232 control
- Support brightness and color temperature adjustment
- Support better gray at low brightness
- Support controlling with a handheld terminal via an app

Hardware

The Front Panel



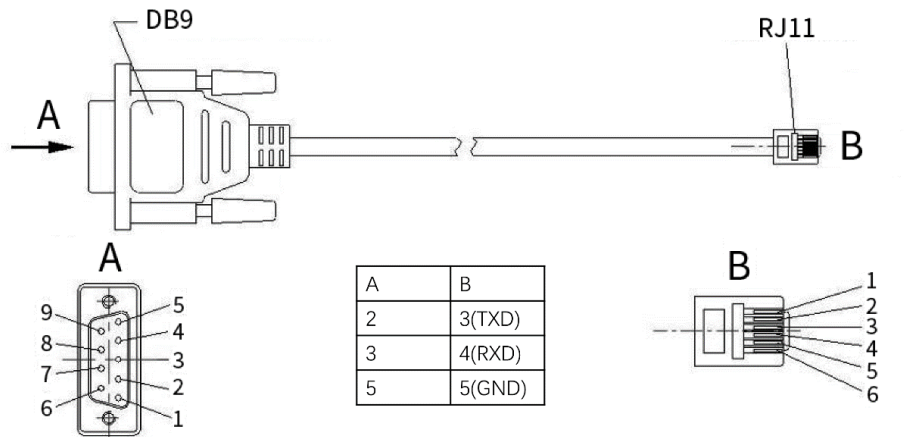
No.	Name	Function
1	LCD	Displays the operation menu and system information
2	Knob	<ul style="list-style-type: none"> Press the knob to enter the submenu or confirm the selection Rotate the knob to select a menu item or adjust parameters
3	Function Keys	OK: Enter key ESC: Escape current operation or selection Bright: Adjust brightness 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	Turn on or off the power

The Back Panel



Input Interface			
1	HDMI 2.0	1×HDMI 2.0 input +LOOP	Only one can be set as an input at a time.
2	DP 1.2	1×DP1.2	
3	DVI1, DVI2	2×DVI	
4	HDMI 1, HDMI2	2×HDMI1.4	
5	SDI	2×3G-SDI	
Output Interface			
1	Port1-16	RJ45, 16 Gigabit Ethernet outputs	
Controlling Interface			
1	LAN	Network control (communication with PC, or access network)	
2	RS232	RJ11 (6P6C) interface, used to communicate via 3 rd 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	

*DB9 female to RJ11(6P6C) cable:



Specifications

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 specification, HDCP2.3 compliant DP: DP-1.2 standard and HDCP2.3 compliant	
Input resolution	1920×1080@60Hz	8bit: supports RGB444, YCbCr444, YCbCr422
	4096×2160@60Hz	8bit: supports RGB444, YCbCr444, YCbCr422

2) HDMI/DVI input board

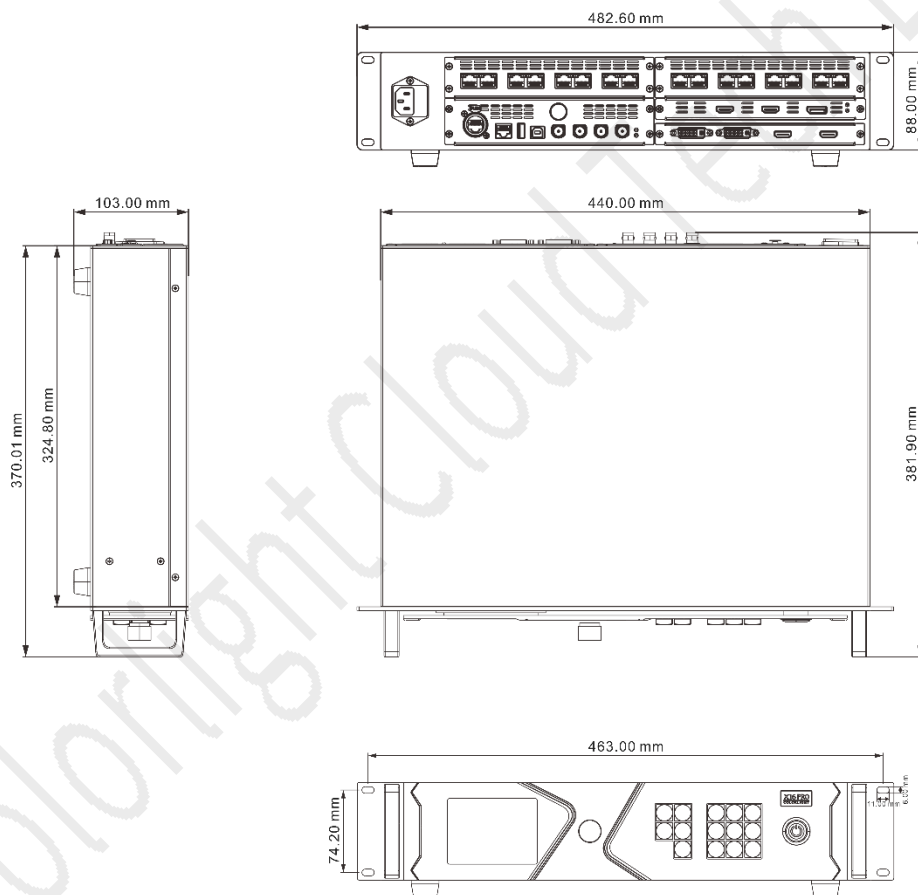
Input signal	2×HDMI 1.4, 2×DVI	
Standard	HDMI : EIA/CEA-861standard, HDMI 1.4 specification, HDCP 1.4 compliant DVI: VESA standard, HDCP 1.4 compliant	
Input resolution	1920×1200@60Hz 8bit supports RGB444, YCbCr444, YCbCr422	

Specification of Complete Machine

Size	2U standard box
Input Voltage	AC 100~240V, 50/60Hz
Rated Power Consumption	70W
Working Temperature	-20°C~60°C
Weight	9kg

Dimensions

Unit: mm



Statement

Thank you for purchasing the product of Colorlight Cloud Tech Ltd. If you encounter any problems during use or have any suggestions, please contact us through official channels. We will do our best to provide support and listen to your valuable suggestions. We will constantly make improvements on technical specifications but without notice. You can visit www.colorlightinside.com to get more updated information.