X8
Controller

Specification V1.2

Overview

X8 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 1920×1200 pixels. It supports digital ports (DVI and SDI), and seamless switching between signals. It supports splicing, broadcast quality scaling, and six-layer displays.

X8 adopts 8 Gigabit Ethernet outputs, and it supports large LED displays of 8192 pixels in maximum width and of 4096 pixels in maximum height. Meanwhile, X8 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 4×DVI and 2×SDI
- Loading capacity: 5 million, maximum width:8192 pixels, maximum height: 4096 pixels
- Support input resolutions up to 1920×1200@60Hz
- Support arbitrary switching of video sources; the input images can be spliced and scaled according to the screen resolution
- Support six-layer displays, the location and size can be adjusted freely
- Support Genlock technology
- Support RS232 protocol
- HDCP1.4 compliant
- Support brightness and color temperature adjustment
- Support better gray at low brightness
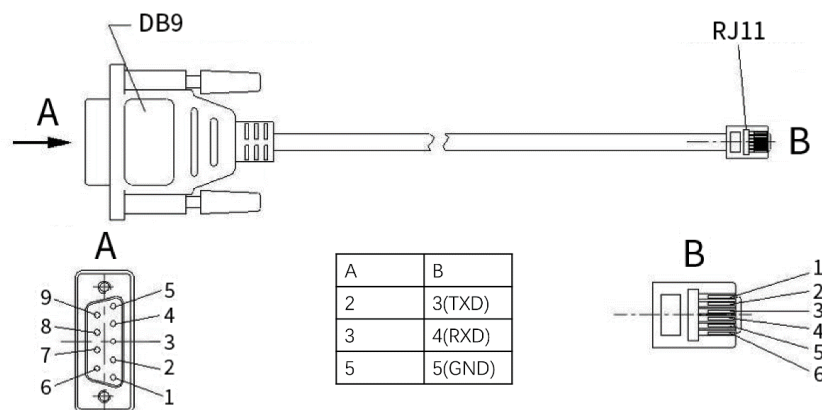
Hardware

The Front Panel

No.	Name	Function
1	LCD	Displays the operation menu and system information
2	Knob	Turn the knob to select an item or adjust the parameter; press the knob to confirm your selection or adjustment
3	Function Keys	OK: Enter key ESC: Escape current operation or selection Bright: Brightness option Black: Blank screen Lock: Lock keys
4	Selection Keys	DVI1/DVI2/DVI3/DVI4/SDI1/SDI2: Video source selection Mode: Preset mode selection of images Freeze: Freeze screen Test: Test mode selection
5	Power Switch	Switch on or off the power supply

The Back Panel

Input Interface		
1	DVI	4 DVI inputs, in accordance with HDMI 1.4 standard Supports 1920×1200@60Hz, 1920×1080@60Hz Supports HDCP
2	SDI	2 SDI inputs, in accordance with 3G-SDI standard Supports 1080p, 1080i,720p
Output Interface		
1	Port 1-8	RJ45, 8 Gigabit Ethernet outputs
Controlling Interface		
1	LAN	Network control (communication with PC, or access network)
2	RS232	RJ11（6P6C）*，used to communicate via 3rd party interfaces
3	USB OUT	USB output, cascading with the next controller
4	USB IN	USB input, which connects with PC to configure parameters
5	Genlock	Genlock signal input ensures synchronism of display image
6	Genlock Loop	Genlock synchronous signal loop output
Power		
1	AC 100~240V	AC Power Interface

*RJ11 and DB9 Conversion

A	B
2	3(TXD)
3	4(RXD)
5	5(GND)

Device Specifications
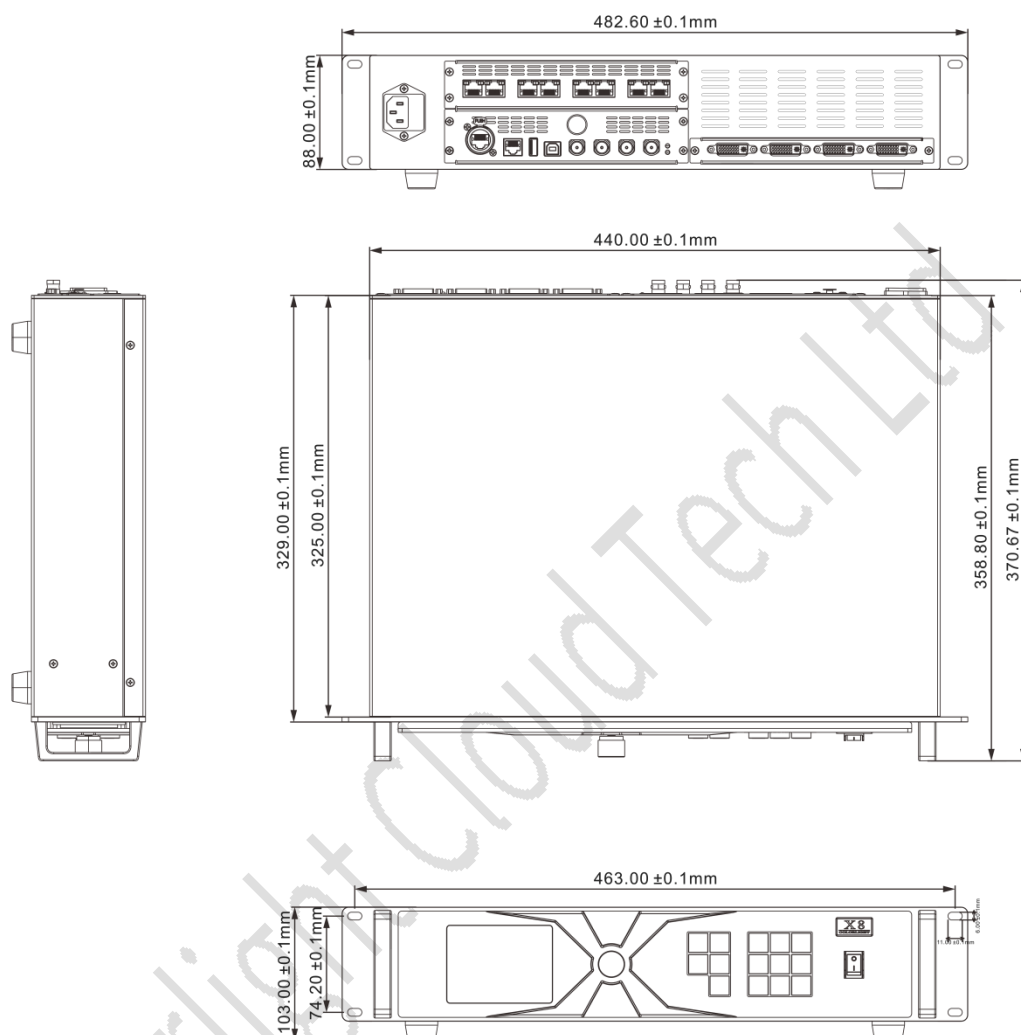
Model		X8
Size		2U
Electrical Specifications	Input Voltage	AC100~240V, 50/60Hz
	Power	70W
Operating Environment	Temperature	-20°C~60°C/-4°F~140°F
	Humidity	0%RH~80%RH, non-condensing
Storage Environment	Temperature	-30°C~80°C/-22°F~176°F
	Humidity	0%RH~90%RH, non-condensing
Device Specifications	Dimensions	W×H×L/482.6×88.0×370.7mm^3/19"×3.5"×14.6"
	Net Weight	6.9kg/15.21lbs
Packing Specifications	Dimensions	W×H×L/550.0×175.0×490.0mm^3/21.7"×6.9"×19.3"
	Net Weight	1.8kg/3.97lbs

Signal format

DVI			
Standard	VESA standard, HDCP1.4 compliant		
Input		Format	Maximum Input Resolution
	8bit	RGB444	1920×1200@60Hz
		YCbCr444	
		YCbCr422	
	Frame Rate	23.98/24/25/29.97/30/50/59.97/60Hz	
SDI			
Standard	3G SDI		
Input	Support 1080p, 1080i, 720p		

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