

X12

LED Video Controller

Specification V1.2



Overview

X12, a professional control system and video processing device designed for LED display engineering applications. It has DVI and HDMI connectors, and supports seamless switching between multiple signals, broadcast quality scaling and multi-window display. The controller boasts 12 Gigabit Ethernet ports. A single unit features a loading capacity of 7.8 million pixels, with 8192 pixels in maximum width or 4096 pixels in maximum height. Meanwhile, the X12 is equipped with abundant practical functions that enable flexible screen control and high-quality image display, which gives it an edge in the LED display engineering application field.

Features

- Input: 1× DVI, 3× HDMI1.4.
- Input resolution: up to 1920×1200@60Hz, supporting customized setting.
- Output: 12× Gigabit Ethernet ports, supporting Ethernet port backup or sender backup.
- Loading capacity: 7.8 million pixels, up to 8192 pixels in width or 4096 pixels in height.
- Switching, cropping, splicing and scaling of video sources.
- Display of up to 3 windows, of which the location and size can be freely adjusted
- HDCP1.4 compliant.
- Dual USB2.0 for high-speed configuration, used for debugging or cascading.
- Support RS232 protocol
- Brightness, color temperature, contrast, hue and saturation adjustment.
- Better gray at low brightness.

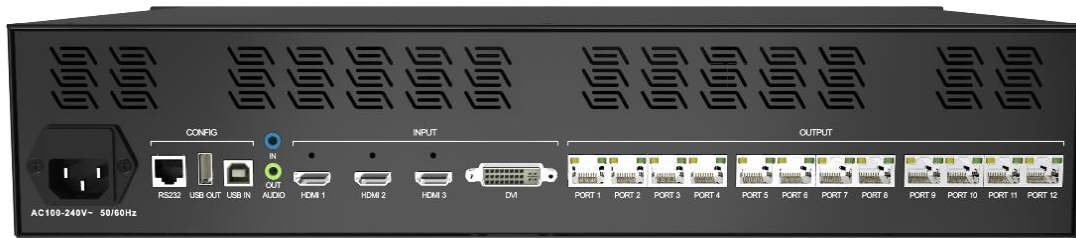
Hardware

Front



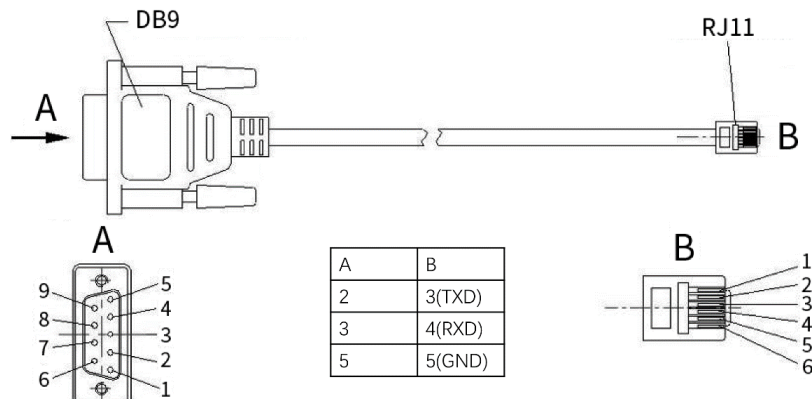
No.	Item	Function
1	LCD	Display the operation menu and system information.
2	Knob	- Turn the knob to select an item or adjust the parameter. - Press the knob to confirm your selection or adjustment.
3	Function Keys	- OK: Enter key. - ESC: Exit the current menu or operation. - Bright: Brightness adjustment. - Lock: Lock all the keys of the front panel. - Part: Cropping. - Mode: Mode selection. 1~4: Preset scene quick selection keys.
4	Video Signal Selection Keys	HDMI1 / HDMI2 / HDMI3 / DVI: Video source selection keys.
5	Power Switch	Switch on or off the power supply.

Rear



Input	
HDMI1~3	3×HDMI inputs, support audio input. - HDMI1.4 specification, input resolution up to 1920×1200@60Hz.
DVI	1×DVI input. - DVI specification, input resolution up to 1920×1200@60Hz.
Output	
Port1-12	- RJ45, 12×1 Gigabit Ethernet outputs. - Single channel maximum capacity of 0.65 million pixels. - X12 maximum capacity of 7.8 million pixels.
Control	
RS232	RJ11(6P6C)*, connect to the third party device.
USB IN	USB input, connect to the PC for debugging.
USB OUT	USB output, as cascading output.
Audio	
AUDIO IN	Audio input, for inputting audio signals from the computer or other devices.
AUDIO OUT	Audio output, for outputting audio signals to the speaker (Support processing and outputting the audio signals of HDMI)
Power Supply	
AC 100~240V	AC 100~240V, built-in fuse

* DB9 female to RJ11(6P6C) cable:



Parameters

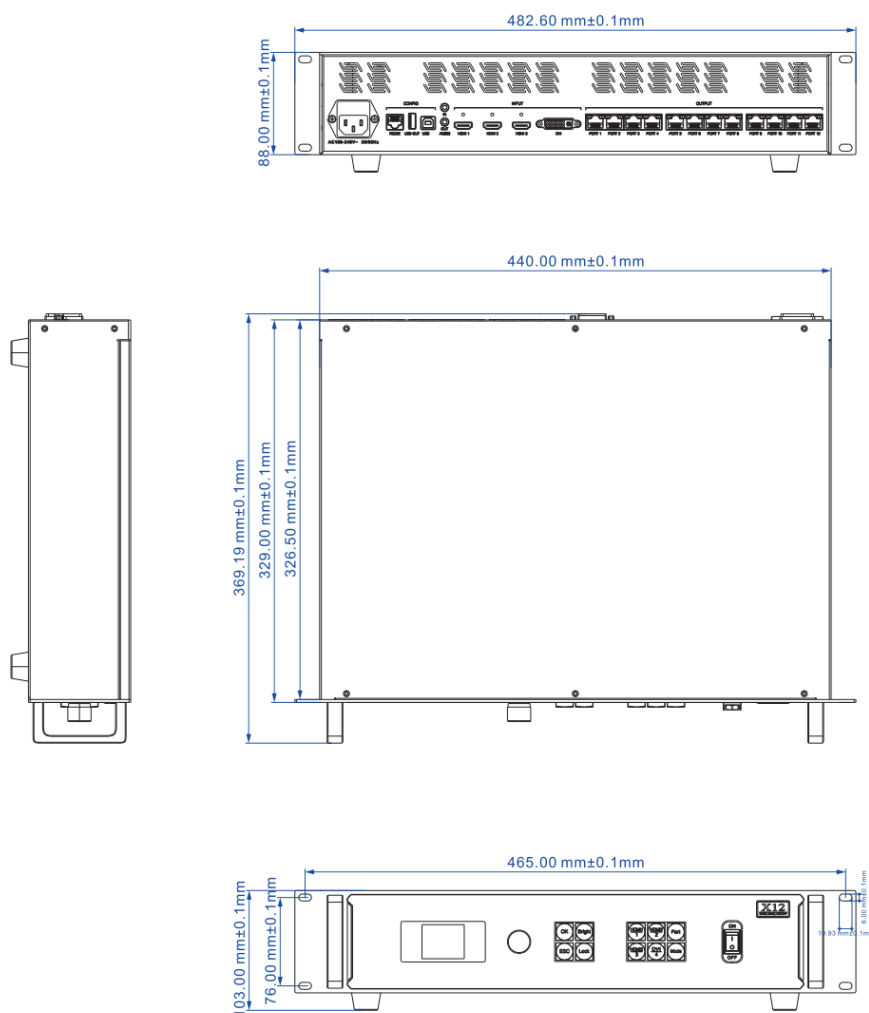
Model		X12
Size		2U
Electrical Specification	Input Voltage	AC100~240V, 50~60Hz
	Power	30W
Operating Environment	Temperature	-30°C~60°C/-22°F~140°F
	Humidity	0%RH~80%RH, non-condensing
Storage Environment	Temperature	-40°C~80°C/-40°F~176°F
	Humidity	0%RH~90%RH, non-condensing
Device Specification	Dimensions	W×H×L/482.6×88.0×369.2mm ³ /19"×3.5"×14.5
	Net Weight	4.6kg/10.1lbs
Packing Specification	Dimensions	W×H×L/525.0×150.0×455.0mm ³ /20.7"×5.9"×1
	Net Weight	1.6kg/3.53lbs

Signal format

HDMI 1.4			
Standard	HDMI 1.4 specification, support HDCP		
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	
Support audio input			
DVI			
Standard	Support HDCP		
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	

Reference Dimensions

Unit: mm



Statement

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