Colorlight

Z6 PRO Super Controller

Specification

Colorlight (Shenzhen) Cloud Technology Co., Ltd.

Z6 PRO Super Controller

Overview

Z6 PRO Super Controller is a professional LED display controller with splicing, sending and processing functions. Z6 PRO has 4K video source input capability, UHD and HDR image processing and transmission. Z6 PRO has four 10G fiber output ports, which can be applied to high-end rental display and high resolution LED displays.

Features

- Supports 4×4K input board，up to 4096×2160@60Hz resolution per board；
- Supports 3 types of optional 4K input boards，including HDMI/DP，4×DVI，4×SDI ；
- 4×10G fiber output ports，loading capacity up to 8847360 pixels，maximum width: 8192 pixels, maximum height: 4096 pixels
- Supports low latency；
- Supports 16 PIP layers. The location and size can be adjusted freely；
- Supports video source switching, splicing, cropping and scaling；
- Supports HDR;
- Supports 3D video and display；
- Improved gray-scale at low brightness;
- Hue, saturation, contrast adjustment；
- Supports USB, LAN and RS232 control；
- Supports Art-net control.

Hardware

The Front Panel

No.	Items	Functions
1	LCD	Displays operational menu and system information
2	Knob	Turn or press to select or adjust
3	Selection keys	OK: Enter ESC: Escape current operation or selection Bright: Brightness option Black: Blank screen Lock: Lock key Mode: output mode selection

The Back Panel

Input Interface		
1	Input board	4 pcs，resolution up to 4096×2160@60Hz per board
2	Input board options	1) HDMI/DP 2) 4×DVI 3) 4×SDI
Output Interface		
1	10G Fiber	4×10G fiber output ports，compatible with Neutrik optical CON DUO fiber port and LC-LC fiber port
Controlling Interface		
1	LAN	100M-Ethernet control port, and can be used as Art-net control port
2	USB IN	USB input, which connect with PC to configure parameters
3	USB OUT	USB output, cascading with next controller
4	RS232	DB9 port, for external device control
5	GENLOCK	Genlock signal input
6	GENLOCK LOOP	Genlock signal loop output
7	3D sync	Connect to 3D emitter (optional)

Specifications

Optional 4K input board

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	3840×2160@60Hz	8bit: Supports RGB444, YCbCr444, YCbCr422, YCbCr420 10bit: supports YCbCr422, YCbCr420
	1920×1080@60Hz	8/10bit: Supports RGB444, YCbCr444, YCbCr422, YCbCr420
	4096×2160@60Hz	8bit: Supports RGB444，YCbCr444，YCbCr422， YCbCr420

2) 4×DVI input board

Input signal	4×DVI inputs
Standard	VESA standard，supports HDCP1.4
Input resolution	1920×1080@60Hz 8bit : supports RGB444, YCbCr444, YCbCr422, YCbCr420

3) 4×SDI input board

Input signal	4×3G-SDI inputs
Video source format	Compatible with 3G-SDI, HD-SDI, SD-SDI
Input resolution	1080p, 1080i，720p
Transmission distance	1080p≤100 meters

Output interface

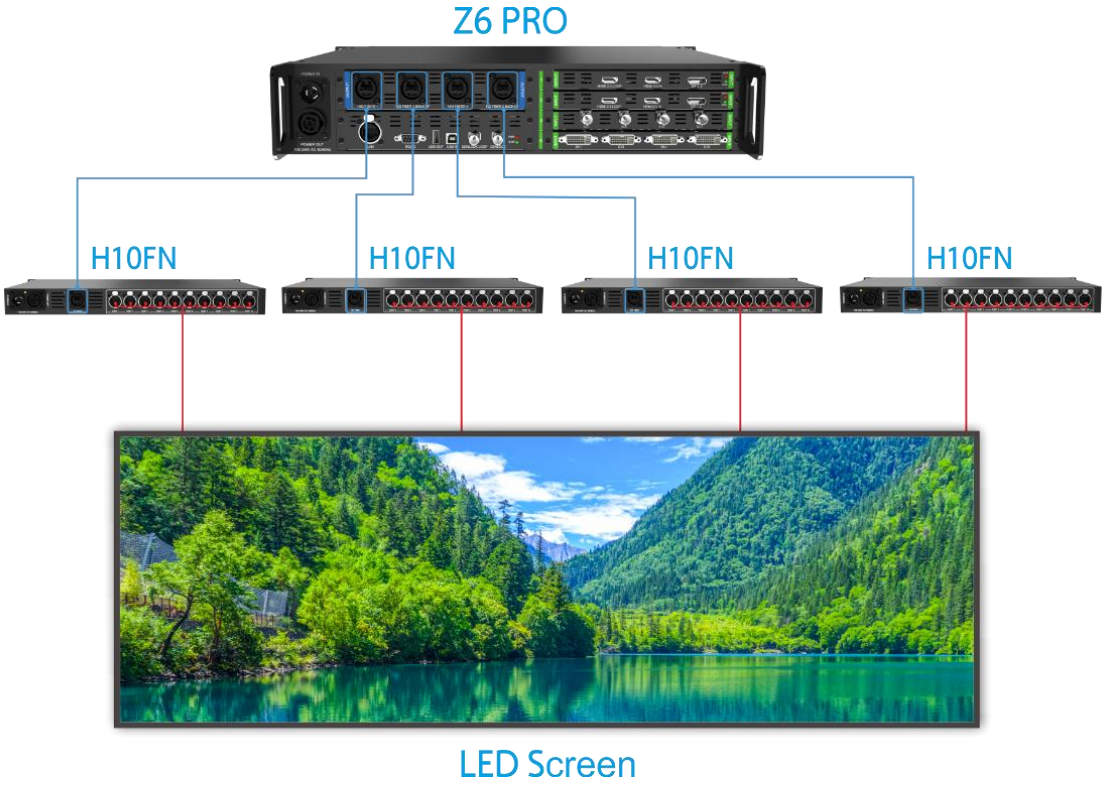
Output signal	4×10G fiber outputs		
Interface	Compatible with Neutrik optical CON DUO fiber port and LC-LC fiber port		
Resolution		2D mode	3D mode
	8bit	8847360 pixels total，maximum width: 8192 pixels, maximum height: 4096 pixels	4423680 pixels total，maximum width: 8192 pixels, maximum height: 4096 pixels
	10bit	8294400 pixels total，maximum width: 8192 pixels, maximum height: 4096 pixels	4147200 pixels total，maximum width: 8192 pixels, maximum height: 4096 pixels
Transmission distance	2 km		

Specification of complete machine

Size	W482.6mm×H87mm×D430mm
Input voltage	AC100~240V，50/60Hz
Rated Power Consumption	150W
Working temperature	0℃~55℃
Weight	9.64kg

Connection Diagram

Used in conjunction with H10FN



Dimensions

Unit：mm