



Z6 PRO Super Controller

Specification

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 port, which can be applied to high-end rental display and high resolution LED displays.

Features

- Supports 4 pcs 4K input board, up to 4096×2160@60Hz resolution per board;
- Support 3 types of optional 4K input boards, including HDMI/DP, DVI×4, SDI×4 ;
- 4 10G fiber output ports, load capability up to 8847360 pixels, maximum width/height : 8192 pixels;
- Low latency processing;
- 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 options Black: Blank screen Lock: Lock keys 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) DVI×4 3) SDI×4
Output Interface		
1	10G Fiber	4 channels, 10G fiber output ports, compatible with Neutrik optical CON DUO fiber port and LC-LC fiber port

Controlling Interface		
1	100M Ethernet	100M-Ethernet Control port (communicate directly with a PC, or network access), 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 commands and control via a central device
5	Genlock	Genlock signal input ensures a perfectly synchronous image display
6	Genlock Loop	Synchronous signal loop output
7	3D sync	Connect to 3D emitter (Optional)

Specifications

4K input board optional

1) HDMI/DP input board

Input signal	1 channel HDMI2.0+LOOP, 1 channel DP1.2; accepts two inputs, however only one can be set as an output at a 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: support RGB444 , YCbCr444 , YCbCr422, YCbCr420
	4096×2160@60Hz	8bit: support RGB444 , YCbCr444 , YCbCr422, YCbCr420

2) DVI×4 input board

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

3) SDI×4 input board

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

Output interface

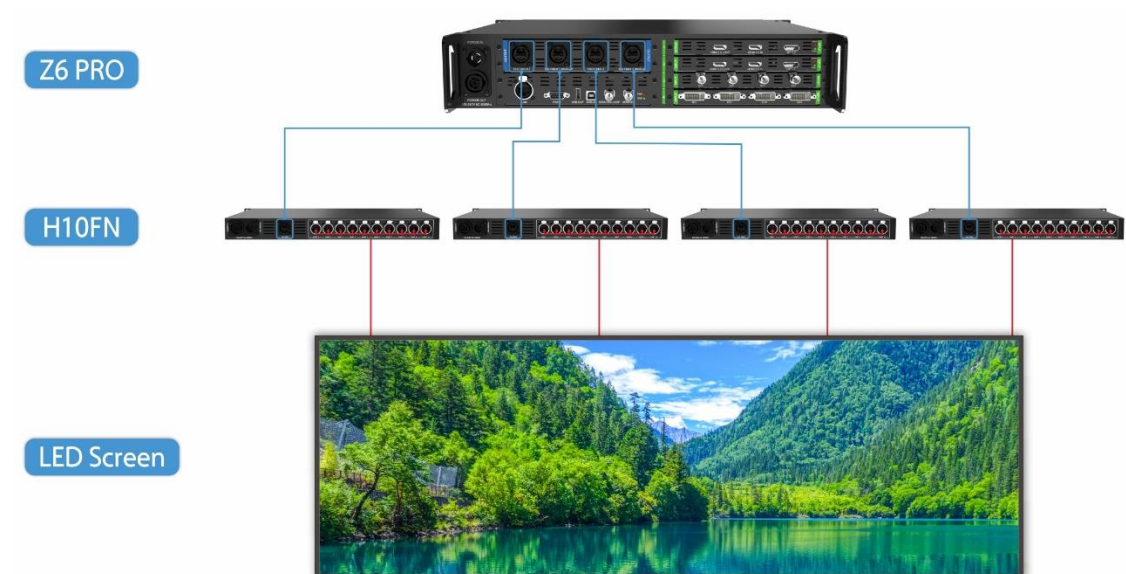
Output signal	4 channel 10G fiber		
Interface	Compatible with Neutrik optical CON DUO fiber port and LC-LC fiber port		
Resolution		2D mode	3D mode
	8bit	8847360 pixels total, maximum height/width: 8192 pixels;	4423680 pixels total, maximum height/width: 8192 pixels;
	10bit	8294400 pixels total, maximum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

Specification of complete machine

Size	2U standard box (W 482.6mm x H 87mm x D 430mm)
Input voltage	AC100~240V, 50/60Hz
Rated Power Consumption	150W
Working temperature	-20°C~50°C
Weight	9.64kg

Connection Diagram

Used in conjunction with H10FN



Dimensions

Unit: mm

