Colorlight



Z6 Super Controller

Specification

Beijing Colorlight Technology Co., Ltd.

Z6 Super Controller

Overview

Z6 Super Controller is a professional LED display controller. As video splicer, processor and sender in one combined, Z6 has 4K video input capability, UHD and HDR images processing and transmission. Z6 can be applied to high-end rental display and high resolution LED display perfectly.

Features

- Video input ports including SDI×2, HDMI2.0×1, DVI×4;
- Support input resolution up to 3840×2160@60Hz;
- Loading capacity: 8.3 million pixels, Maximum Width/Height: 8192 pixels;
- The input images can be spliced and zoomed according to the screen resolution;
- Support PIP function, the location and size can be adjusted freely;
- Support splicing and cascading among several controllers with synchronization strictly;
- Support 3D display;
- Support brightness and chromaticity adjustment;
- Support improved gray-scale at low brightness;
- Support HDCP2.2；
- Compatible with all receiving cards, multifunction card, optical fiber transceivers of Colorlight.

Hardware

The Front Panel



NO	Name	Function
1	3.5-inch LCD	Display operation menu and system information
2	Knob	Turning knob to select or adjust
3	Function keys	OK: Enter key ESC: Escape current operation or selection Bright: Brightness options Black: Blank screen Lock: Lock keys
4	Selection keys	PIP: PIP switch Freeze: Freeze screen DVI/HDMI/SDI1/SDI2: Video source selection

The Back Panel



Input Interface		
1	SDI	2 3G-SDI inputs
2	HDMI	HDMI2.0 input
3	DVI	4 DVI inputs
Output Interface		
1	Gigabit Ethernet	16 Neutrik Gigabit Ethernet outputs
Controlling Interface		
1	100M Ethernet	100M-Ethernet Control port (communication with PC, or access network), and can be used as Artnet control port
2	USB_OUT	USB output, cascading with next controller
3	USB_IN	USB input, which connect with PC to configure parameters
4	Genlock	Genlock signal input ensures synchronism of display image
5	Genlock_loop	Genlock synchronous signal loop output
6	3D sync	Connect to 3D emitter (Optional)

Specifications

Input Index				
Port	Number	Resolution Specification		Remarks
SDI	2	1080P		
HDMI	1	EIA/CEA-861 Standard, in accordance with HDMI-2.0 standard, support HDCP2.2	3840x2160@60hz	8bit supports RGB444，YCbCr444， YCbCr422，YCbCr420 10bit supports YCbCr422，YCbCr420
			1920x1080@60hz	8/10bit supports RGB444，YCbCr444， YCbCr422，YCbCr420
DVI	4	VESA Standard , support HDCP	1920x1080@60hz	8/10/12bit supports RGB444，YCbCr444，YCbCr422， YCbCr420

Output Index	
Color Depth	Resolution Specification
8bit	3840x2160@60hz
10bit	2880x2160@60hz

Specification of complete machine	
Size	2U standard box
Input Voltage	AC 100~240V
Rated Power Consumption	80W
Working temperature	-25℃~80℃
Weight	9kg

Dimension

Unit：mm

