

Z6 Super Controller

Specification

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 2×SDI, 1×HDMI2.0, 1×DP1.2, 4×DVI;
- Supports input resolution up to 3840×2160@60Hz;
- Loading capacity: 8.3 million pixels, maximum width: 8192 pixels, maximum height: 4096 pixels;
- Supports HDR;
- Supports 8,10 and 12 bits;
- Low latency;
- The input images can be spliced and scaled according to the screen resolution;
- Supports three PIPs, the location and size can be adjusted freely;
- Supports splicing and cascading among several controllers with synchronization strictly;
- Supports brightness and color temperature adjustment;
- Supports better gray at low brightness;
- Supports HDCP2.2;
- Compatible with all receiving cards, multifunction card and optical fiber transceivers of Colorlight.

Hardware

The Front Panel

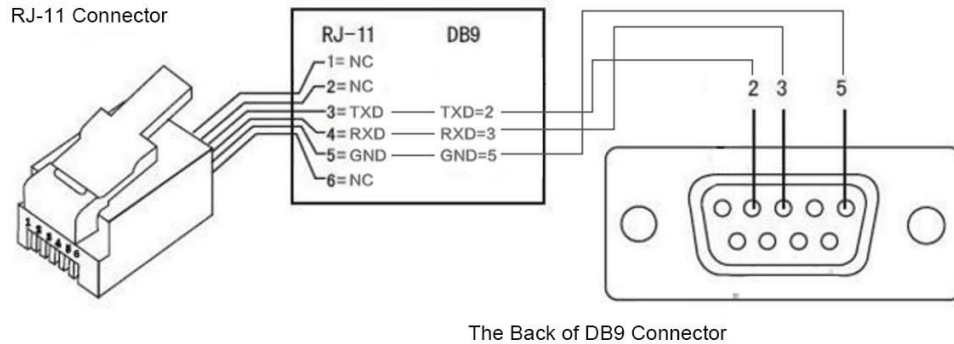


No.	Name	Function
1	3.5-inch LCD	Display operation menu and system information
2	Knob	Turning knob to select or adjust
3	Function keys	OK: Enter key ESC: Escape current operation or selection Bright: Brightness options Black: Blank screen Lock: Lock keys
4	Selection keys	PIP: PIP switch Freeze: Freeze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

The Back Panel



Input Interface		
1	SDI	2×3G-SDI
2	HDMI	1×HDMI 2.0+LOOP
3	DP	1×DP 1.2
4	DVI	4×DVI
Output Interface		
1	Gigabit Ethernet	16 Neutrik Gigabit Ethernet outputs
Controlling Interface		
1	LAN	100M-Ethernet Control port (communication with PC, or access network), and can be used as Artnet control port
2	USB_IN	USB input, which connect with PC to configure parameters
3	USB_OUT	USB output, cascading with next controller
4	Genlock	Genlock signal input ensures synchronism of display image
5	Genlock Loop	Genlock synchronous signal loop output
6	RS232	RJ11 (6P6C) *, used to communicate via 3rd party interfaces
Power		
1	AC 100~240V	AC Power Interface

***RJ11 and DB9 Conversion**
Circuit Connection Diagram


Specifications

Input Index			
Port	Number	Resolution Specification	Remarks
SDI	2	1080p, 1080i, 720p	8bit supports YCbCr422
HDMI	1	EIA/CEA-861 Standard, in Accordance with HDMI-2.0 Standard, Support HDCP2.2	3840×2160@60Hz 8bit supports RGB444, YCbCr444, YCbCr422, YCbCr420 10bit supports YCbCr422, YCbCr420
			1920×1080@60Hz 8/10bit supports RGB444, YCbCr444, YCbCr422, YCbCr420
DP	1	VESA DP1.2 Standard, Support HDCP1.3	3840×2160@60Hz 8bit supports RGB444, YCbCr444, YCbCr422, YCbCr420 10bit supports YCbCr422, YCbCr420
			1920×1080@60Hz 8/10bit supports RGB444, YCbCr444, YCbCr422, YCbCr420
DVI	4	VESA Standard, Support HDCP	1920×1080@60Hz 8/10bit supports RGB444, YCbCr444, YCbCr422, YCbCr420

Output Index	
Color Depth	Resolution Specification
8bit	3840×2160@60Hz
10bit	2880×2160@60Hz

Specification of Complete Machine	
Size	2U standard box
Input Voltage	AC100~240V
Rated Power Consumption	70W
Working Temperature	-20°C~60°C
Ambient Humidity	0-95%, non-condensing
Weight	9kg

Dimension

Unit: mm

