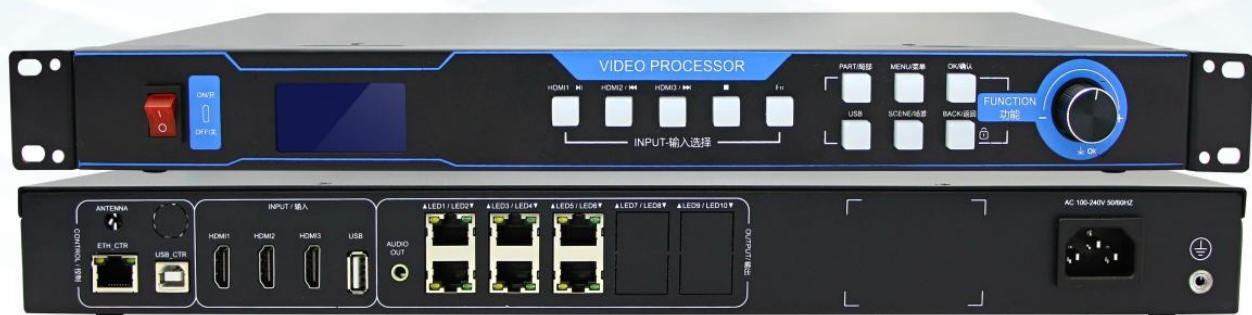




ZH LED Control System



ZH-Z6M Video Processor

Product Specification





Product Specification

ZH-Z6M

I. Product Introduction:

The ZH-Z6M is a two-in-one HD video processor and transmitter card developed for large-screen LED display systems. It utilizes industry-leading lossless scaling technology and supports HD HDMI/USB flash drive input, audio output, and standard Gigabit Ethernet output, providing customers with a high-definition display solution for large LED screens. This product supports one-touch switching between synchronous HD video source and asynchronous USB flash drive content display, greatly simplifying the user's operation process and truly achieving the goal of simple operation. This product system supports online upgrades, ensuring customers can upgrade to new features from time to time.

II. Functional Features

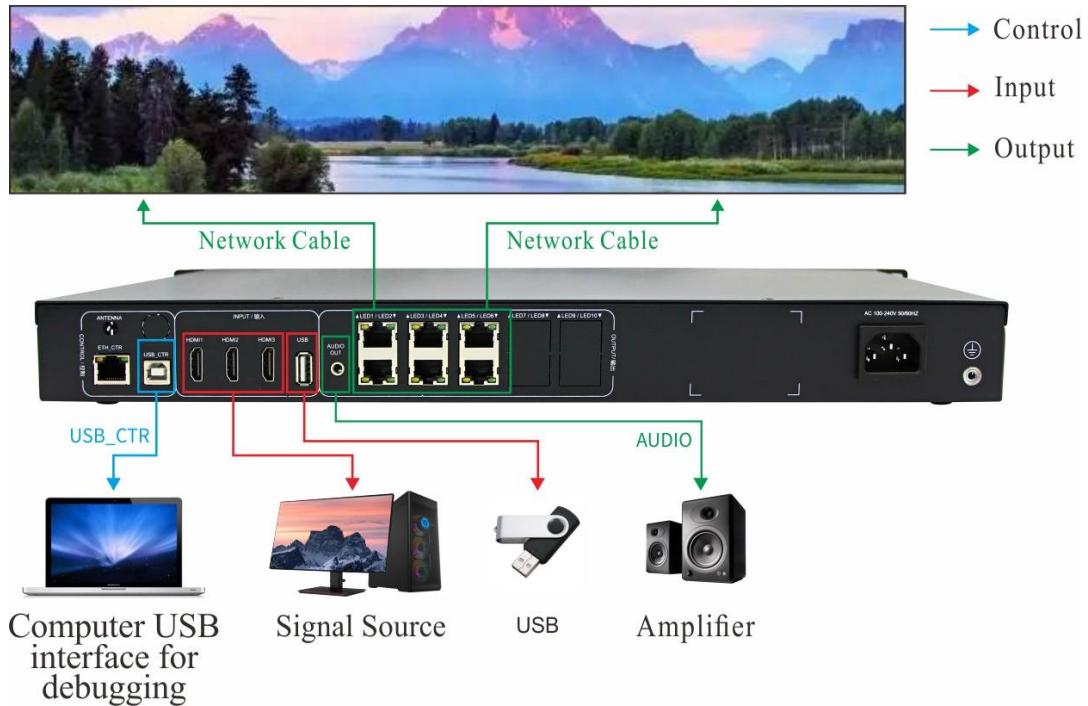
1. Multiple signal inputs: 3 HDMI inputs, 1 USB flash drive input;
2. Input resolution: Maximum 4096*2160 pixels at 30Hz, supports arbitrary resolution settings;
3. Simultaneous audio and video input;
4. Supports the following output signal interfaces: LAN (RJ45) × 6 (with network port connection status indicator), maximum supported resolution of 3.9 million pixels, supports custom resolutions, maximum width 16384 pixels, maximum height 4096 pixels; Audio (PJ35) × 1;
5. Built-in USB flash drive playback function: directly plug in a USB flash drive to automatically play videos or pictures from the USB flash drive;
6. Arbitrary switching of video sources and scaling of input images according to display resolution;
7. Supports audio input and output;
8. Image brightness, contrast, saturation, and color temperature adjustment;
9. Supports custom resolution;
10. LED screen testing: arbitrary display switching between black, blue, and red screens;
11. Supports scene recall and saving;
12. Standard network port central control interface;



ZH LED Display Control System

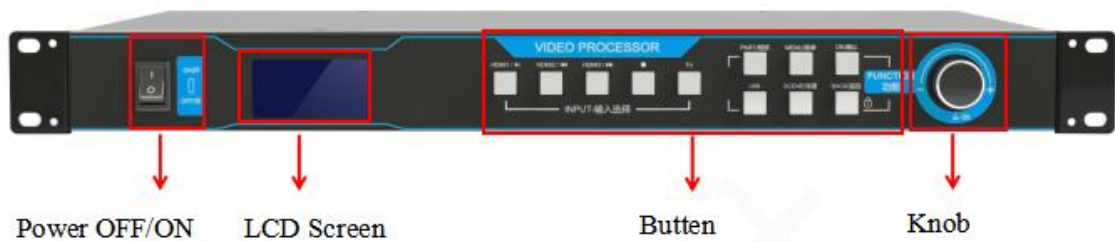
- 13. Supports online system upgrades;
- 14. Supports hot backup: hot backup of two network ports in the same group and multi-card hot backup;
- 15. Supports all series of ZH receiver cards, multi-function cards, and fiber optic transceivers.

III. System Topology



IV. Hardware Introduction:

The Front Panel



Power ON/OFF	Power switch
LCD Screen	Display device status and user interface
Knob	Pressing the key enters the menu or confirms the selection; rotating or moving the cursor allows you to modify parameters.

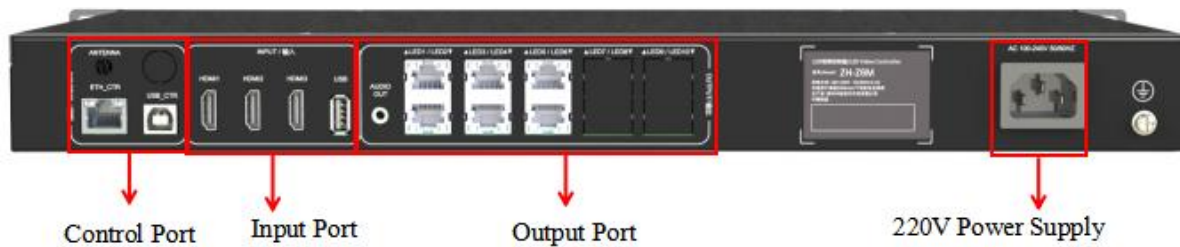
Button



ZH LED Display Control System

HDMI 1/▶	2K signal HDMI 1/Pause, Play	PART/局部	Partial/full-screen switching
HDMI 2/◀◀	2K single HDMI 2/Previous	MENU/菜单	Menu button
HDMI 3/▶▶	2K 信号 HDMI 3/Next	OK/确认	Confirm button
■	Pause	USB	USB play signal
Fn	Composite buttons	SCENE/场景	Scene list
		ESC/返回	Back

The Back Panel



CONFIG/控制		INPUT/输入		OUTPUT/输出	
ETH_CTR	Central control interface	HDMI1/2/3	3*2K HDMI input	LED*6	Output network port 1--6
USB_CTR	Equipment debugging interface	USB	U-disk input	AUDIO_OUT	Audio output
ANTENN A	Reserved interface				

V. Parameters:

Input Standard:

Input Port	Number	Resolution specifications
HDMI	3	EIA/CEA-861 standard, compliant with HDMI1.4 standard, supports HDMI input audio data output
USB	1	Standard USB2.0 interface

Output Standard:

Port	Quantity	Resolution specification
LED	6	Standard gigabit Ethernet ports, supporting arbitrary splicing in the top, bottom, left,



ZH LED Display Control System

		or right directions.
AUDIO	1	3.5mm standard audio interface

Device specification:

Input power	AC 100~240V, 50/60HZ, No more than 2A
Operating power	≤25W
Working temperature	-20~45°C
Volume size	482*243*44.5(mm,L*W*H)
Weight	≈2KG

VI. Hardware Diagram:

Unit: mm

