



®  
ZH LED Control System



# ZH-Z6S

## 4K Two-in-one Video Processor

### Product Specification





# Product Specification

## ZH-Z6S

### (4K Video Processor)

## I. Product Introduction:

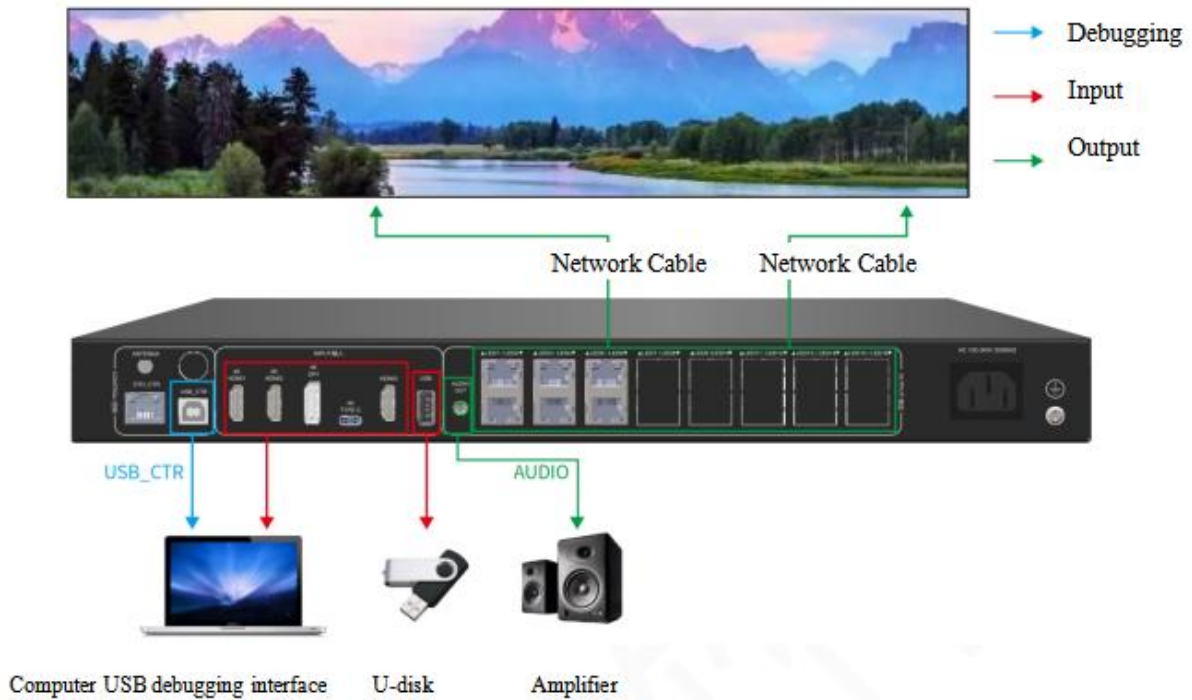
ZH-Z6S 4K two-in-one video processor is a product developed by ZH to meet the convenience of LED large screen installation. It supports high-definition signal input such as HDMI and DP; it supports max pixel 4096\*2160@60Hz, 6pcs Gigabit network output port, and supports max width 16384 pixels or a max height 8192 pixels. It adopts a new communication architecture, high refresh, high brightness, new grayscale scanning engine, nanosecond synchronization, and can maintain smooth communication in poor communication conditions, allowing users to experience a more colorful and better LED world!

## II. Functional Features:

1. Variety of input interfaces: including 2pcs HDMI 2.0, 1pcs HDMI 1.4, 1pcs DP1.2, 1pcs TYPE-C, and 1pcs USB flash drive;
2. Input resolution: max 4096\*2160@60Hz pixels, supports any resolution setting;
3. The max load area: 3.9 million pixels, the max width 16384, and the max height 8192 pixels;
4. Arbitrary switching of video sources, and can scale the input image according to the display resolution;
5. Supports audio input and output;
6. Supports brightness and color temperature adjustment;
7. Low brightness and high gray;
8. Standard network port central control docking;
9. 6pcs Gigabit network output ports, arbitrary splicing up and down, left and right;
10. Hot backup: hot backup of two network ports in the same group and hot backup of multiple cards;
11. Supports ZH all series receiving cards, multi-function cards, and fiber optic transceivers;

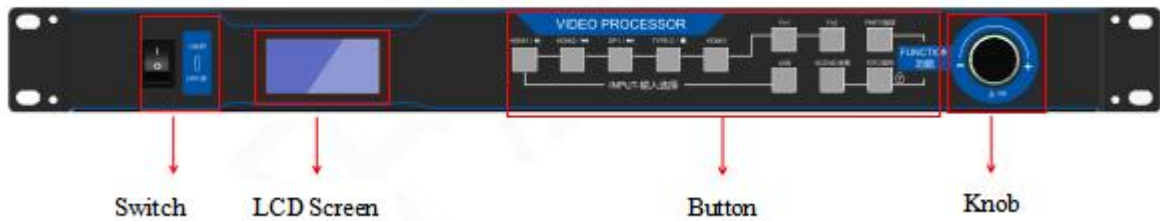


### III. Topology Diagram:



### IV. Hardware Introduction:

#### The Front Panel



<b>Switch</b>	The power switch
<b>LCD</b>	Show the device status and operation interface
<b>Knob</b>	Pressing: To enter or confirm; Rotation: To move the cursor or modify parameters

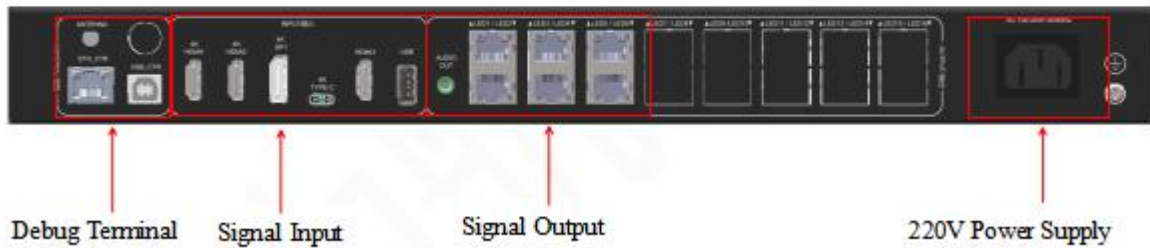
Button Part Manual			
<b>HDMI 1/▶</b>	4K signal HDMI 1/pause or play	<b>Fn1</b>	Composite button 1
<b>HDMI 2/◀◀</b>	4K signal HDMI 2/the last	<b>Fn2</b>	Composite button 2



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<b>DP1/▶▶</b>	4K signal DP1/the next	<b>PART/局部</b>	Partial/full screen switch
<b>TYPE-C/■</b>	4K signal TYPE-C/Stop	<b>USB</b>	U-disk play signal
<b>HDMI 3</b>	2K signal HDMI3	<b>SCENE/场景</b>	Scene List
		<b>ESC/返回</b>	Back

### The Back Panel



CONFIG		INPUT Port		OUTPUT Port	
<b>ETH_CTR</b>	Central control docking interface	<b>HDMI1/2</b>	4K HDMI input	<b>LED*6</b>	Network output port 1--6
<b>USB_CTR</b>	Device debugging interface	<b>DP1</b>	4K DP input	<b>AUDIO_OUT</b>	Audio output
<b>ANTENNA</b>	Reserved port	<b>USB</b>	U-disk input		
		<b>HDMI3</b>	2K HDMI input		
		<b>TYPE-C</b>	TYPE-C input		

### Input:

Port	Quantity	Resolution Specification
HDMI 1.4	1	EIA/CEA-861 standard
HDMI 2.0	2	EIA/CEA-861 standard, compliant with HDMI-2.0 standard, support HDCP2.2
TYPE-C	1	Standard TYPE-C port
DP	1	Match DP-1.2 standard, support HDCP1.3
USB	1	Standard USB2.0 port

### Output:

Port	Quantity	Resolution
<b>LED</b>	6	Standard Gigabit Ethernet port, support ZH V5 all types of receiving cards,



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		support arbitrary splicing up and down or left and right
AUDIO_OUT	1	3.5mm standard audio output port

## Chassis parameters:

Power Input	AC 100~240V, 50/60Hz, not more than 1A
Temperature	-20~45°C
Size	482*300*44.5(mm, L*W*H)
Weight	≈3.2KG

## VI. Hardware Diagram:

Unit: mm

