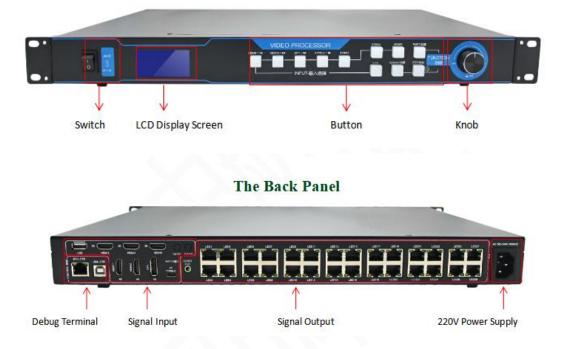


ZH 4K Video Processor Debugging Manual

I. Production Picture:

The Front Panel



(Please refer to the actual product for details)

II.Software Download: www.zhonghangled.com/en

Click "Download" --- Display debugging software: LEDCreateBoxV5

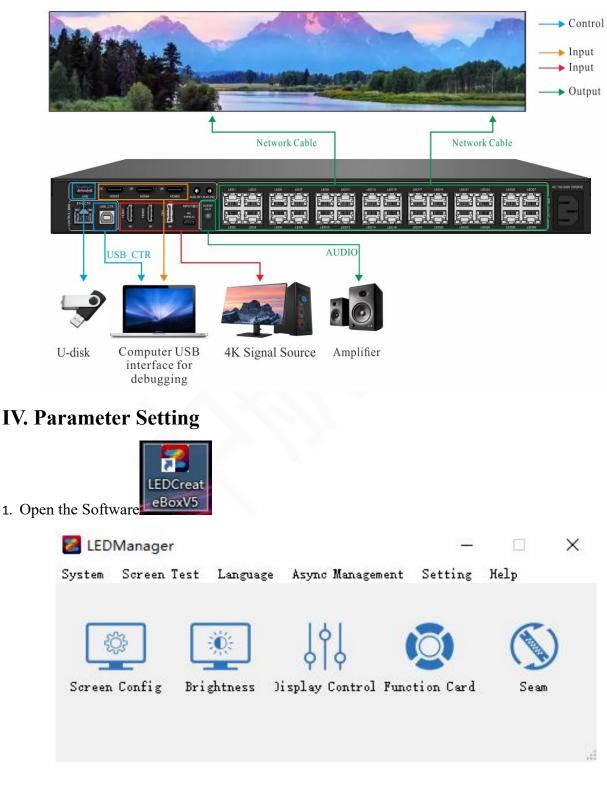


www.zhonghangled.com/en



III.Topology Diagram:

During debugging, Need to use the USB cable to connect the computer and the device for debugging, and the computer's HDMI signal needs to be connected to the device to provide a signal source. (Other signal sources can also be used, such as: DP), and the network cable needs to be connected to receiving card in the display screen.



www.zhonghangled.com/en



System Screen T	'est Languag	e Async Managem	ent Setting	Help	
Screen Config	Brightness)isplay Control	Function Card	Seam	
					al

X

3. Choose "Send Card", If it is connected, it will refresh automatically. The information as show in the red borders indicates that the search is successful.

ard List) PlayBox	
	Addr	Com	Version	
	0	15	5:76:13:7	

www.zhonghangled.com/en



4. Click"Screen Setting"the password is"168"

Screen Set	tting				?	2
end Mode						
	() Send Card	O PlayBox			
endcard Lis	st					
	Addr	Com		Version		
	0	15		5:76:13:7		
		Password: 168	onfirm			
Card In	nfo Firmware Upda	te	Sc	reen Setting	Close	•

5. Click "Sending Board" to enter its interface. Make sure that at least one signal is displayed as "Signal" in the "Signal Source Settings", and click this signal source. (Or select the corresponding signal source button in the "INPUT-Input Selection" on the device. If the button light is always on, it means there is a signal, and if the button light flashes, it means there is no signal).

ding Board Receiv dow count: 2	ing card Screen Connect Scene ap		Scene invalid - Sce	ne saved		IC temp	erature: 0°	c]	🗌 Window adv	ance settir
IN V Signal sou	rce: HDMI1 (0 x 0@0Hz)	Window	e status: 🗹 Enable	Window	priorit	ry: 1	•			
ignal source setting		Image po	ositon	1						
DME 1	• ©	X :	0							
DMI2	• @	Y:	0							
DMI3	• @									
P	• @	Width:	Land							
GA	• @	Height:	1080							
0 50		1500	2000	LED Scre	en bize					
				Width: Network	port siz	1920 e		🗘 Height:	1080	
					port siz Status	Laster	Y	Height: Width	1080 Height	•
	нрит			Network	-	:e			0	1.000
	HDMI			Network	Status	x	Ŷ	Width	Height	1.000
	HDMI			Network Port 1	Status ~	x 0	Y 0	Width 1024	Height	1.000
	HDMI			Network Port 1 2	Status ~	e X 0 0	V 0	Width 1024 1024	Height 512 512	
	HDMI			Network Port 1 2 3	Status ~ (S)	x 0 0 0	Y 0 0 0	Width 1024 1024 1024	Height 512 512 512	

6. Click "Receiving Card" to enter its interface. If the unit board information is known, you can

ZH LED Display Control System

directly click "Load from File" --- "Preset Parameters" (Ctrl+F) to debug, then set its "Height" and "Width", click "Send to Hardware" and "Save to Hardware". (Also you can also use "Intelligent Settings" to debug)

Note: The preset parameter needs to be obtained by the computer link with internet, or it can be used after downloading the offline file in advance.

Parameters Setting						1991 - 1991 - 1991 - 1991 - 1991 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 -	- 0	>
Sending Board Receiv	ving card Screen Conne	tion						
Module Information								
Size(W x H): 128	x 64 Driver IC:	FM6363	Attribute	Row Decode IC	: 138 decoding			1
Scan Type: 1/32				RGB Order:	Blue-Green-Red	Adjust	2	>
			-					
					Custom Mo	dule		
Cabinet Information				0	Irregular			
Regular						Height(Pixel) 0	\$	
Width(Pix) 128 🜲	<=253	Data Group Common 32	group(T16) 🔹					
Height(Pix) 128 🛊	<=1024	Output Type Normal ou	tput 🔻		Construct Cabi	net View Ca	line	
Performance				Oti	Non-Dealer and the operation of the Dealer and the State	TIGE ATEM CS	ibinet.	
Refresh Rate	3360 🔻	Hz Refresh Multiple	8	-				
Gray Level	8192 🗸	GCLK		- MHz	Advanced Setup	Data Group E	xchange	
DCLK	8.333 MDHZ. 👻	MDfz	More 😒	c	ustom GammaTable	When there is no Black screen	video signal 🗸	1
Brightness	100 👻				Column Decoder			
		8			Row Decoder			
					Colorspace			
			1			<u></u>		
ntelligent Setting Rea	adback parameters Enable	Port Mapping	Load From File▼	Save To File		Send To HW	Save To	НW
Screen Test Firmw	vare version: 🌫 •		Browser	Ctrl+B			Close	
Joreen rest	are version 🔛		Preset parame	ters Ctrl+F			CIUSE	20
Parameters Setting							- 🗆	>
Sending Board Recei	ving card Screen Conne	tion						
Module Information								
Size(W x H): 128	x 64 Driver IC:	FM6363	Attribute	Row Decode IC	: 138 decoding		2	
Scan Type: 1/32	2 Routing Type	: Indoor routine P3P2.5	-0	RGB Order:	Blue-Green-Red	Adjust	>	*
								=2
					Custom Mo	dule		
Cabinet Information Regular				0	Irregular			
				Wi	dth(Pixel) 0 🗘	Height(Fixel) 0	\$	
Width(Fix) 128 🜩	<=253	Data Group Common 32	group(T16) 👻					
Height(Pix) 128 😩	<=1024	Output Type Normal ou	tput 💌		Construct Cabin	net View Ca	binet	
Performance				Oth	ier			
Refresh Rate	3360 *	Hz Refresh Multiple	8		Advanced Setup	Data Carros Ra		T ²
Gray Level	8192 💌	GCLK	10.42 MHZ	r MOKz	Ravanced Setup	Data Group Ex		
DCLK	8.333 MHZ 💌	MDfz	More 💝	C	ustom GammaTable	When there is no w Black screen	ideo signal ▼	
Brightness	100 🗸				Column Decoder			
					Row Decoder			
					Kow Decoder			
					Colorspace			
					2			
ntelligent Setting Re	adback parameters Enable	Port Mapping	Load From File -	Save To File		Send To HW	Save To 1	НW
Screen Test Firmw	vare version: _, _, _ 芝 🔹						Close	

7. Click "Screen Connection" to enter its interface --- choose "Receiving Card Count"--- set the number of "columns" and "Row" of the card. Select the corresponding "Netport number" to connect

ZH LED Display Control System

the receiving card in right order. Then set each receiving card in "width" and "height", after the configuration is completed, click "Send to the HW", after the screen is displayed normally click"Save to the HW" to complete the debugging.

(When connecting the receiving card, the LED display and the computer screen both in the same

direction on the front side, just distinguish between up and down, left and right is ok).

