



Z4 Super Controller

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1 Overview

Z4 is a professional LED display controller. As video splicer, processor and sender in one combined, Z4 has high capability of video signal reception, processing and transmission. It achieves excellent high-definition images and flexible image control function. Z4 can be applied to popular rental display and common fixed display perfectly.

Features:

- Video input ports including 1xHDMI (with loop), 1xDVI (with loop), 2×SDI, 1×DP
- Input resolution up to 1920×1200@60Hz
- The input images can be scaled according to the screen resolution
- Support PIP function, the location and size can be adjusted freely
- Support 12bit HD video source
- Loading capacity: 2.3 million pixels; Maximum Width: 4096 pixels, Maximum Height: 4096 pixels
- Support splicing and cascading among several controllers with synchronization strictly
- Support brightness and chromaticity adjustment, color gamut transformation
- Support zero latency of sending
- Support improved gray-scale at low brightness
- Support HDCP1.4
- Compatible with all receiving cards, multifunction card, optical fiber transceivers of Colorlight



2 Appearance

Front Panel



No.	Name	Function
1	1.8-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 option Black: Blank screen
4	Selection keys	Mode: Output mode selection of images Freeze: Freeze screen Lock: Lock keys DVI/HDMI/SDI1/SDI2/DP: Set up video source input

Back Panel



Input Inte	erface	
1	HDMI	HDMI1.4 input with loop
2	DVI	DVI input with loop
3	SDI	2x3G-SDI inputs
4	DP	DP input
Output Ir	nterface	
1	Gigabit Ethernet	4 Neutrik Gigabit Ethernet outputs
2	HDMI	HDMI monitoring output
Controlli	ng Interface	
1	100M Ethernet	Network Control (communication with PC, or access network)
2	USB_OUT	USB output, cascading with next controller
3	USB_IN	USB input, connection with PC to configure parameters



3 Signal Connection





4 LEDVISION Installation

Please download the installation package of the LEDVISION software from Colorlight's official website, and complete the installation according to the diagrams shown below.

1. Run the software package, and select **[English]** for installer language. Click **[OK]** to move on.

	Installer Language
Please wait while Setup is loading	Please select a language.
unpacking data: 90%	English 💌
	OK Cancel

 After selecting a language, an installation wizard like below will appear, click [Next]; Then choose installation location, click [Browse] to change default target location, then click [Next] after completing;

Choose components according to your own computer status, click **[Install]** to complete; After the installation is complete you are ready to use LEDVISION.





5 Parameter Configuration

Please make sure the correctness of the hardware connection before setting, use LEDVISION to detect sender and all receiving cards.

5.1 Detect Sender and Receiving Card

1. Run LEDVISION, click **[Control]** – **[Screen Control]** to enter the Screen Control window.



2. **[Select Sending Device]** for **[Sender]**, click **[Detect Senders]** in **[Sender Settings]**. Please check the hardware connection or the installation of relevant driver if cannot detect senders.

Select network port and click **[Detect Receiver Cards]** respectively, the software will automatically acquire the receiver card quantity of each network port of the sender. Please check corresponding cable if the numbers of receiver card are inconsistent with actual status.



Net Card	Sender	🖱 Play	Box	LED Screen Settings
ender Settings				
Detect Senders	Z4 1.02		Detect Receive	er Cards Port1
1 sender(s) detected Z4 1.02				
D Screen Window Manan	ment			
ED Screen Window Manag Count 1 💌	ement x 0	Y 0 W	idth 3000 Height 20	300 Apply
		Y 0 W	idth 3000 Height 20 Width	000 Apply Height

5.2 LED Screen Setting

Click **[LED Screen Settings]** to enter the LED Screen Setting interface, and set up **"Sending Device"**, **"Screen Parameters"**, **"Connection Parameters"**.

🔿 Net C	ig Device ard		Sender	e) Play Box	LED So	reen Settings
ender Settir	ngs						
Detect	Senders	Z4 1.02				Detect Receiver Cards	Port1 .
1 sender(s) Z4 1.02) detected						
ED Screen W	indow Mana						
	indow Mana		¢ 0	Y O	Width 3000	0 Height 2000	Apply
Count			x 0	Y 0 Y	Width 3000	1	Apply Height
	1 •			1	Width 3000	1	04000



5.2.1 Sending Device Setting

[Select Sending Device] for **[Sender]**, and detect senders. Sending Device Setting includes 6 parts: Output, Control Area, EDID, Network, Other, Detect Receivers.

1. Output

① Signal Source

When the input signal source of Z4 is normal, the upper right of the software interface will display the input signal information auto acquired via the software. Users can select specific signal source (HDMI/DVI/SDI1/SDI2/DP) according to needs in [Main]; If PIP mode has been open, users can also select specific signal source (HDMI/DVI/SDI1/SDI2/DP) in [PIP]. At the moment, the image of selected signal source will display in the Image View Area on the left of the software interface.



Note: Main and PIP can't select the same source. When PIP1 and PIP2 exist in output mode at the same time, PIP1 and PIP2 can select the same source.

2 PIP

There are three output modes of main image and PIP in **Output Mode**, users can select specific PIP mode based on the requirement, and conduct the operation like move, scaling and clipping on the main image and PIP image respectively.



0	evice Screen Parameters Receiver Mapping(Look From Front)					
ec	t Sending Device					
	Net Card Sender Play Box	Toatal: 1 Z4	1.02		Detect Senders	
0	utput Control Area EDID Network Other	Detect Rece	vers			
м		Ing	ut	Input Type	Crop	Set
	9	.12 но	MI	No Signal	😽 No Clipping	•••
		D	/1	No Signal	😽 No Clipping	•••
		SC	11	No Signal	🔀 No Clipping	
1	PIPSDI	sc	12	No Signal	🗙 No Clipping	•••
		D	P	No Signal	🗙 No Clipping	•••
		Out	put M	Mode Pres	set	
	1080		1		Unnamed Preset	•
1			-		Save Load	Rename
		Mai		x 0 🔿 Width 1920 킂	Keep Aspect R	atio
-			1	r 0 🔅 Height 1080 🌲	1:1	
-				Andread Control of Control Andread	Picture Adjustme	nt
1					T WHEN CHILDREN	
-			-	we		

③ Scaling

In **Image View Area**, select the image that needs to be scaled, set X, Y, width and height of it in **[Main]** or **[PIP]**, or you can click the white box in the bottom right corner of the image and drag it with the mouse, finally click **[Save]**.

Select Sending Device	arameters Receiver Mapping(LOOK FROM FROND	7				
Net Card	Sender	C Play Box	Toatal: 1	Z4 1.02		Detect Senders	
Output	Control Area EDID	Network Ot	her Detect	Receivers			
Main HDMI DVI	SD11 SD12 DP PIP		<u>.</u>	Input	Input Type	Crop	Set
0		00		HDMI	No Signal	🗙 No Clipping	
				DVI	No Signal	🗙 No Clipping	•••
				SDI1	No Signal	🗙 No Clipping	•••
				SDI2	No Signal	🗙 No Clipping	
500				DP	No Signal	🗙 No Clipping	
10:0		10-20-20		Output N		eset 2. Unnamed Preset	•
			esere -			Save Load	Rename
				Main)	(0 🐥 Width 1920 🛟	Keep Aspect Ra	tio
1500				1	r 0 😭 Height 1080 🔹	1:1	
						Picture Adjustmer	t
2000				Sa			



(4) Clipping

Select signal source of the image that needs to be clipped in **Input Signal Area**, click **[Set]** to enter the clipping interface.

	Parameters Receive	er Mapping(Look	Prom Pront)						
Select Sending Devic	ie .								
Net Card	Sender		🕐 Play Box		Toatal: 1	Z4 1.02		Detect Senders	
Output	Control Area	EDID	Network	Other	Detect	Receivers			
Main HDMI DV		P				Input	Input Type	Crop	Set
0		1000	1500	COLORAD		HDMI	No Signal	😽 No Clipping	•••
				1020		DVI	No Signal	🗙 No Clipping	
						SDI1	No Signal	🔀 No Clipping	•••
500		IDMI				SDI2	No Signal	🔀 No Clipping	
ŏ						DP	No Signal	🗙 No Clipping	
1000 1500 2000			1976					Unnamed Preset	

In the clipping interface, check **[Crop]**, and set X, Y, width and height in **[Cropping Settings]**, then click **[Save]** to complete.





5 Picture Adjustment

Click [Picture Adjustment], enter the interface of picture adjustment. Check [Enable], and adjust hue, saturation, brightness compensation and contrast ratio of the whole image, then click [Save] to complete. After setting, you can click [Default Settings] to restore the default values of every parameter, that is, hue and brightness compensation default to 0, saturation and contrast ratio default to 100.

	nding Device Net Card Sender	Play Box	Toatal: 1 24 1.02		Detect Senders	
Outp	ut Control Area	EDID Network Othe	r Detect Receivers			
Main		PIP HOME DVI SDI1 SDI2 DP	Input	Input Type	Crop	Set
0	500	1000 1500	200 0000 000	Sinnel	🗙 No Clipping	•••
		Picture Adjustment			🗙 No Clipping	•••
		Enable			🗙 No Clipping	
1		Hue	0	0	😽 No Clipping	•••
500		Saturation	0	100	😽 No Clipping	•••
1		Brightness Compensation Contrast Ratio	0	0 100		
-	180	Default Settings	9	A 50 million (1997)	eset	
1000	<i>n</i> -u	Deraut Settings		Save	2. Unnamed Preset	•
1		<u></u>			Save Load I	Rename
-			Main X 0	🐳 Width 1920 🌲	Keep Aspect Ra	tio
1500			Y O	Height 1080	1:1	
					Picture Adjustmen	t

6 Preset

In **[Preset]**, 16 preset parameters can be saved, and every preset parameter includes all parameter information of image output (signal source, PIP, scaling, clipping, picture adjustment), users can directly load one preset parameter to display the image according to needs, and don't need to set up all parameters again.

After completing setting up all parameters of image output, **select** unnamed preset, click **[Save]** to save the parameter to sending device; click **[Load]**, send the parameter to receiving cards. At the time, the image should display on the basis of preset parameter.



ng Device Screet	n Parameters Receiver Mapp	ning(Look From Front)				
Select Sending Dev	rice					
🕐 Net Card	d 💿 Sender	Play Box	Toatal: 1 Z4 1	02	Detect Senders	
Output	Control Area ED	DID Network C	Other Detect Receive			
Conport	Control Area EL	ALD NEWORK C	Joher Detect Receiv	15		
and the second s	ferrerer ferrerer ferrerer ferrer	PIP HOMI DVI SDI1 SDI2		t Input Type	Crop	Set
		1000 1500	1200 HDM	I No Signal	😽 No Clipping	•••
			DV	No Signal	😽 No Clipping	•••
			SDI	No Signal	😽 No Clipping	
500			SDI	No Signal	😽 No Clipping	•••
8			DP	No Signal	😽 No Clipping	•••
1						
1060			Outpu	t Mode	Preset	
8		1930x10			2. Unnamed Preset	•
					Save Load K	ename
_			Main	x 0 🔅 Width 1920	Keep Aspect Ratio	
1500				Y 0 🔅 Height 1080		1
				And	Picture Adjustment	2
_					The set is the parameters	
2000				Save		

2. In **Control Area**, it displays the control area of each net port of Z4. Click **[Import]** and select correct parameter file, click **[Save]** to save parameters into corresponding sender; or set up the control area of each net port respectively (X, Y, Width, Height), click **[Save]**.

	evice Scri	een Parameters Receiv	ver Mapping(Look From Front)							
	Net Ci		Br	🕐 Play Box		Toatal: 1 Z4 1.02				Detect Sende	f5
-03	Output	Control Area	EDID	Network	Other	Detect Receivers					
	0			1000	. 1500		Port	x	Y	Width	Height
0						-	1	0	0	960	540
-							2	960	0	960	540
-							3	0	540	960	540
1							4	960	540	960	540
1000				1							
1500											

3. EDID: Set sender resolution, the first one is the default as current resolution.



🔘 Net Card	Sender	Play Box	Toata	i: 1 Z4 1.02	Detect Senders
Output Co	ontrol Area EDID	Network	Other De	tect Receivers	
Input	Width	Height	Frame Rate	Resolution 1920 x 1200 -	Save
HDMI	1920	1200	60	Color Depth 8 Bit •	
DVI	1920	1080	60		
DP	1920	1080	60		

Click the dropdown button to display the resolution list to select the mainstream resolution, and you can also customize the sender resolution, by setting the width/height and frame rate.

Click [Save] after setting.

Resolution	1920 x 1200 🔹	Save	Resolution	Culebra			1		-
	Custom 1920 x 1080	L	Resolution	Custor	n				Save
Color Depth	1920 x 1200			1920	×	1200	Frame Rate	60	-

4. **Network**: Set up IP address, select "Obtain an IP Address Automatically", then the sender would auto obtain the IP address; or it would manual set up IP Address, Subnet Mask and Default Gateway.

ang bevice []	Screen Parameters Reco	eiver Mapping(Look	From Front)			
Select Sendin	ng Device					
🕐 Ne	t Card 💿 Sen	der	🔿 Play Box		Toatal: 1 Z4 1.02	Detect Senders
Output	Control Area	EDID	Network	Other	Detect Receivers	
0	Obtain An IP Address Aut	tomatically				
	Use The Following IP Add					
	IP Address	192 . 168 .	0.1			
	Subnet Mask	255 . 255 .	255 . 0			
	Default Gateway	192 , 168 ,	1 . 1			
			[Save		



5. **Other**: Advanced Parameters Setting (Better Graylevel on Low Brightness, Mapping From Sender, Output Mode, Sender Name), Test Mode Selection, Factory Restore.

	Screen Parameters Recei	iver Mapping(Lool	From Front)			
Select Sendi	ng Device et Card 💿 Send	er	🔿 Play Box		Toatal: 1 24 1.02	Detect Senders
Output	Control Area	EDID	Network	Other	Detect Receivers	
Ad	vanced Parameters					
	Better Graylevel On I				Export Parameters to File	
	Mapping From Sende				Import Parameters from File	
	Output Mode	Network Ca	ble 🔹		Factory Restore	
	Sender Name					
Te	st Mode					
	Test Mode	Off	•			

6. **Detect Receivers**: Detect receivers under each net port of Z4 controller, and acquire relevant information about the receivers (Port, Index, Version, Run Time, Support Chips).





5.2.2 Screen Parameters Setting

Observe the display screen with single cabinet as a unit, and if all cabinets themselves could display normally {it is normal circumstance even the picture between cabinets is not continuous}, please ignore this step and directly go to the next step.

Otherwise, configuration must be done as follows:

Module Information Inverted Data No Reverse Chip Type SLIM2030 Width 80 Inverted Data No Reverse Scan Mode 15 scan Height 15 OE Active High No Reverse Box Setting	
Scan Mode 16 scan Height 16 OE Active High No Reverse	
Box Setting	
Width 160 <=1024 Cascade Right To Left Data Group Normal 32 groups	
Height 160 <#256 Fold Count 2 Split (Same Way) Data Group Swap	
Performance Setting	
Refresh Rate 480Hz Gray Mode Balanced Low Gray 🔹 Calibration Mode Disable 🔹 Blanking Pl	hase
Gray Level 4096 GOLK 8.3 MHz Calbration From Receiver Cards SOK Duty F	Ratio
DCLK 8.3 MHz	le Setting
Blanking Value 0 👘 (×100ns) Input Bit Depth Bbit 💌 Custom Gamm	na Table
Brightness Percent: 94% Enable Gradual Disable Other Param Other Param	neters
Gamma Value 2.8	Setting
Hide Advanced Settings	

Click [Load], choose the correct parameter file.

Click **[Send]**, to send the loading parameters to the receiving cards. At the moment, each cabinet should display normally (it is normal circumstance even the picture between cabinets is not continuous), then click **[Save to Receiver]** to save the parameters to the receiving cards.

If each cabinet cannot display normally, you can conduct via the **Basic Setting** (**Module Information**, **Box Setting**, **Performance Setting**) or **Intelligent Setting**, and you can also contact with the LED screen engineers.

5.2.3 Connection Parameters Setting

Users don't need to set up the control area of each net port respectively, but to the connection relationship between the receiving cards under the network port loading via each sender, and the software will auto calculate and set up the port control area according to the connection relationship.

Detailed setting steps as follows:

1. Set up the quantity of receiving card

Set how many receiver (receiving card) that one port manages in Row Count and Col Count (6*6 as an example) according to the actual loading of LED display, you will see LED display mapping area from the right side (Viewing from the front of LED display).



Sender Information		~	~4 Ne.	⊞ ८ ः	2 🛛 🛙	Show Connect	on Lines 💿 Sta	indard 🛞 C	omplex
1		12	310	2	3	(4)	5	6	Receiver Card Layout
ort 1.1 12 13 14		1	Port No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.:0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height 128	Col Count 6 +
Reset the Current Port Number		2	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Selected Card Information No. 1
Auto Calculation Manual Edit <u>Calculate</u> ender Port X Y Width Height		3	Port No::0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height 128	Port No.: 0 Width: 128 Height: 128	Port No.:0 Width: 128 Height: 128	Port No:0 Width: 128 Height 128	Port No:0 Width:128 Height:128	Width 128
		4	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Operation Guide			
	4	5	Port No.: 0 Width: 128 Height: 128	Port No:0 Width:128 Height 128	Port No.: 0 Width: 128 Height: 128	Port No:0 Width: 128 Height: 128	Port No:0 Width: 128 Height 128	Port No.: 0 Width: 128 Height: 128	
		9	Port No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No:: 0 Width: 128 Height: 128	Port No: 0 Width: 128 Height: 128	

2. Receiving Card Parameters Setting

Select the target **sender** and the **net port** from the left side, then **select** the corresponding **cabinets** within net port actual control area and set the connection lines in the mapping area.

ding Dev	rice Sc	reen Par	ameters	Receive	er Mapping	(Loo	From	Front)						
Sender			informat	ion			~	~ <u>No.</u>	⊞ 8 :	7 🛛 🔹	Show Connect	on Lines 🔘 Sta	indard 🔘 C	omplex
1								1	2	3	4	5	6	Receiver Card Layout
Port		1-2	1.		1.4			Port: 1-1 No.: 1 Width: 128 Height: 128	Port: 1-1 No: 2 Width: 128 Height: 128	Port 1-1 No: 3 Width 128 Height 128	Port: No.: 0 Width: 128 Height 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Col Count 6
			ent Port	Number			13	Port: 1-1 No.: 6 Width: 128 Height: 128	Port 1-1 No: 5 Width: 128 Height: 128	Port 1-1 No.:4 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height 128	Reset All Selected Card Information No. 9
Auto C Manua Sender	l Edit		culate V	Width	Height		e	Port1 No.: 7 Width: 128 Height: 128	Port 1-1 No: 8 Width: 128 Height 128	Port 1-1 No: 9 Width: 128 Height 128	Port No:: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height 128	Port No:0 Width: 128 Height 128	Width 128
1	1	0	0	384	384		4	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port No : 0 Width: 128 Height: 128	Operation Guide
						*	5	Port No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port No.: 0 Width: 128 Height: 128	
							9	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	Port: No.: 0 Width: 128 Height: 128	
Apping	is modifi	ed												



There are two methods to set up:

①Use mouse to select one by one

In the mapping area, select the first receiving card based on the actual connection of the net port (view from the front), and then set up the actual loading width and height of the target receiving card in the right side (128*128 as an example).

Click the receiver (receiving card) one by one, according to actual connecting line, until the last one for this network port loads.

②Connection Pattern

Aiming at the LED screen with standard connection lines, firstly set up the receiving card information according to the actual loading width and height (128*128 as an example).

Select the connection line you want from the right side, then cover the corresponding area of net port loading in mapping area, finally complete setting.

Note: As the cabinets have multiple and different specification (that is the inconsistent capacity of the receiving card), you can select the different one to adjust separately after completing setting.





3. Send & Save to Receiving Card

After setting up all the receiving card parameters and connection lines respectively, click **[Send]** to send the correct parameter to the receiving card, and the screen should display normally at this time.

Then click **[Save to Receiver]** to save parameters to corresponding receiving card after confirming.





6 LCD Operation Instruction

6.1 Operational Motion Instruction

Knob/OK:

- > Press the knob/OK under main interface to enter operation interface of menu.
- Rotate the knob to select menu or press the knob/OK under the operation interface of menu to select current menu or enter submenu.
- Rotate the knob to adjust parameters after selecting the menu with parameter, and it will be auto saved within one second after adjustment.

ESC: Return key, exit current menu or operation.

6.2 Main Interface

After starting Z4, main interface of LCD display is as follows:



First row: Company name. Second row: Image resolution. Third row: Screen brightness, Output mode.

6.3 Operation Instruction

Press the knob/OK to enter the operation interface of main menu, and it includes 12 operation instructions: Display Setting, EDID Setting, Cropping Setting, Output Setting, Fiber Setting, Preset Setting, Picture Adjust, Output Shift, Tile Mapping, Network Setting, Language, System Setting.

 ◆ 1, Display Setting 2, EDID Setting 3, Cropping Setting 4, Output Setting 5, Fiber Setting 6. Preset Setting 	➡ 7, Picture Adjust 8, Output Shift 9, Tile Mapping 10, Network Setting 11, Language 12, System Setting
6, Preset Setting	12, System Setting



6.3.1 Display Setting

Rotate the knob to select display setting, then press the knob/OK to enter submenu of "Display Setting".

➡ 1, Brightness	
2, CCT	
3, Black	\bigcirc
4, Better Gray	\bigcirc
5, Test Mode	

1. Brightness: Enter the adjustment interface of "Brightness", press the knob/OK to turn on/off the function of broadcast in the option of "Broadcast", and rotate the knob to change the percentage of brightness in the option of "Brightness".



2. CCT: Enter the adjustment interface of "CCT", rotate the knob to change the value of color temperature in the option of "CCT", and you can also press the knob/OK to reset the value of color temperature as 6500 in the option of "Reset to Default".



3. Black: Press the knob/OK to switch on/off LED screen.

4. Better Gray: Press the knob/OK to turn on/off the option of "Better Gray".

5. Test Mode: Enter the setting interface of "Test Mode", rotate the knob to select test mode, press ESC back to normal mode.



➡ 1, Normal	➡ 7, Horizontal Line	➡ 13, Gradient Blue
2, Red	8, Left Slash	14, Gradient White
3, Green	9, Right Slash	15, Black
4, Blue	10, Pane	
5, White	11, Gradient Red	
6, Vertical Line	12, Gradient Green	

6.3.2 EDID Setting

Rotate the knob to select EDID setting, then press the knob/OK to enter submenu of "EDID Setting".



Enter the EDID setting interface of "HDMI" or "DVI" or "DP". Rotate the knob to select conventional resolution; or set width, height and frame rate by knob in the option of "Custom".



6.3.3 Cropping Setting

Rotate the knob to select cropping setting, then press the knob/OK to enter submenu of "Cropping Setting".

➡ 1, HDMI	
2, DVI	
3, SDI1	
4, SDI2	
5, DP	

Enter the cropping interface of "HDMI" or "DVI" or "SDI1" or "SDI2" or "DP", press the



knob/OK to turn on/off crop. If it has been enabled, set X, Y, width and height of input signal by knob then save the data.

0
0
200
200

6.3.4 Output Setting

Rotate the knob to select output setting, then press the knob/OK to enter submenu of "Output Setting"; Continue rotating the knob to select "Main" or "PIP1" or "PIP2", press the knob/OK to enter the output setting interface. Rotate the knob to adjust X, Y, width and height of output, then save it.

3, PIP2 3, 4	,X 0 ;,Y 0 ;,Width 1920 ;,Height 1080 ;,Save	
-----------------	--	--

6.3.5 Fiber Setting

Rotate the knob to select fiber setting, then press the knob/OK to enter submenu of "Fiber Setting". In the submenu, output mode defaults to cable output, users can press the knob/OK to switch output mode, that is, the output mode is switched to fiber output.





6.3.6 Preset Setting

Rotate the knob to select preset setting, then press the knob/OK to enter submenu of "Preset Setting".



In the submenu, 16 preset parameters can be saved, and every preset parameter includes all parameter information of image output (signal source, PIP, scaling, clipping, picture adjustment), users can also directly load the saved preset parameter to display the image according to needs, and don't need to set up all parameters again.

➡ 1, Unnamed	➡ 7, Unnamed	➡ 13, Unnamed
2, Unnamed	8, Unnamed	14, Unnamed
3, Unnamed	9, Unnamed	15, Unnamed
4, Unnamed	10, Unnamed	16, Unnamed
5, Unnamed	11, Unnamed	
6, Unnamed	12, Unnamed	

6.3.7 Picture Adjust

Rotate the knob to select picture adjustment, then press the knob/OK to enter submenu of "Picture Adjust". In the submenu, press the knob/OK to turn on/off "Enable". If "Enable" has been turned on, users can set hue, saturation, brightness and contrast of image by knob then save the data; and users can also restore the default values of every parameter, that is, hue and brightness default to 0, saturation and contrast default to 100.

➡ 1, Enable		➡ 7, Reset
2, Hue	0	
3, Saturation	100	
4, Brightness	0	
5, Contrast	100	
6, Save		



6.3.8 Output Shift

Rotate the knob to select output shift, then press the knob/OK to enter submenu of "Output Shift".



Output shift includes two ways: "Whole" and "By Port". In the setting interface of "Whole", you can rotate the knob to set X and Y of the whole image and save it; in the setting interface of "By Port", you can set X and Y of the image of each net port respectively, then save it.

0 0	 ▶ 1, Port 1 x 2, Port 1 y 3, Port 2 x 4, Port 2 y 5, Port 3 x 6, Port 3 y 	0 0 320 0 640	➡ 7, Port 4 x 8, Port 4 y 9, Save	0 960
	6, Port 3 y	640		

6.3.9 Tile Mapping

Rotate the knob to select tile mapping, then press the knob/OK to enter submenu of "Tile Mapping". In the submenu, press the knob/OK to set sender as the connection source. At this time, rotate the knob and press the knob/OK to enter the setting interface, select the net port of which need to be set and set offset values of X and Y, also, you can set the width, height, row, column and link type of corresponding cabinets, then save all the parameters.



6.3.10 Others

Network Setting: Users can automatically obtain an IP address or set manually. Enter the setting interface of "Network Setting", press the knob/OK to turn on/off DHCP; or press the knob/OK to enter manual IP setting, you can set up IP, subnet and gateway respectively



via the knob.



Language: Enter the setting interface of "Language", press the knob/OK to switch the language.



System Setting: In "System Setting", users can set date and time, restore factory settings and check current firmware information.

