LVP615

LED HD Video Processor

User Manual V1.1



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Chapter 1: Safety precautions

! Danger

There is high voltage in the processor, to prevent any unexpected hazard, unless you are maintenance, please do not open the cover of the device.

! Warning

- 1. This device shall not encounter water sprinkle or splash, please do not place anything containing water on this device.
- 2. To prevent fire, keep this device far from any fire source.
- 3. If this device gives out any strange noise, smoke or smell, please immediately unplug the power cord from receptacle, and contact local dealer.
- 4. Signal cables are not hot swappable.

! Caution

- 1. Please thoroughly read this manual before using this device, and keep it well for future reference.
- 2. In the event of lighting or when you are not going to use the device for a long time, please pull the power plug out of receptacle.
- 3. Nobody other than professional technicians can operate the device, unless they have been appropriately trained or under guidance of technicians.
- 4. To prevent equipment damage or electric shock, please don't fill in anything in the vent of the device.
- 5. Do not place the device near any water source or anywhere damp.
- 6. Do not place the device near any radiator or anywhere under high temperature.
- 7. To prevent rupture or damage of power cords, please handle and keep them properly.
- 8. Please immediately unplug power cord and have the device repaired, when
 - 1) Liquid splashes to the device.
 - 2) The device is dropped down or cabinet is damaged.
 - 3) Obvious malpractice is found or performance degrades.

Chapter 2: Item List

Please unpack the product carefully, then check whether all the following things are included in the package. If anything is found missing, please contact the dealer.

Standard accessories

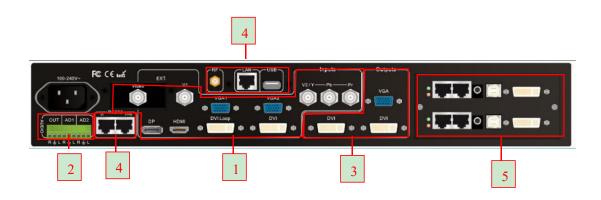
The accessories supplied with this LED Video Processor may differ from

the figures contained in the User's Manual, but they are applicable for the regions where you live.(LED sending card is optional)

1.5m power cordx1	1.5m DVI cablex1	0.5m DVI cablex1
1* 1.5meter USB wire	User manualx1	CDx1
		LED记想做你处理器 LED VIDEO PROCESSOR USSOR Helsiyse2202 Versiyse2203 Versiyse230 Versiyse230
Ethernet port sending card	Audio connector x1	BNC-RCA adapter x3
baffle + power cable		
Lf (NINKING STATE	O LE
DVI-I to VGA adapte (only		
for LVP615D)		

Chapter 3: Hardware connection

3.1 Rear view



3.2 Ports description

3.2.1 Video signal inputs (INPUT)

LVP615 supports 8 video signals input as follows:

Port	Description
V1	1xComposite Video (PAL/ NTSC)
V2 / YPbPr	1xComposite video (PAL/ NTSC) or analog
	component video input
VGA1~VGA2	2xPC analog signal
DVI	1x DVI (PC digital signal)
НДМІ	1xHDMI (HD digital signal)
DP	1xDisplayPort(digital signal input)
EXT.	1x Extended PAL/NTSC composite video input

3.2.2 Audio input signals (AUDIO)

LVP615 supports 4-channel stereo audio inputs switching. Of which, 2 channels are DP and HDMI input. The other 2 channels are AD1, AD2 external audio input. AD1 and AD2 can be mapped to any one of signal inputs, and will be switched synchronous to the selection of video input signals.

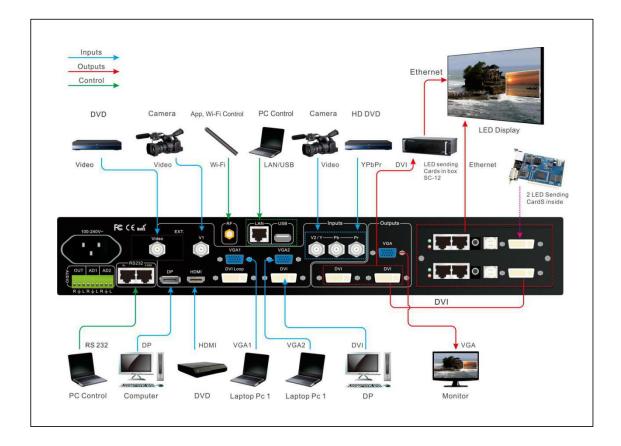
3.2.3 Video signal output

Port	Description
VGA OUT	1-channel analog RGBHV signal output, which can be connected to a local display device for monitoring (it is strongly recommended to use this port when operating and setting LVP615).
DVI OUT1 /	2 same DVI digital graphic signal output, it can be connected to
DVI OUT2	external 2 LED transmission cards or LED transmission boxes.
DVI Loop OUT	1-channel computer DVI digital signal loop output

3.2.4 Other ports

Port	Description
LAN	TCP/IP local area network control interface
USB	USB communication port
	Serial communication interface, used to connect the RS232
RS232 IN	port of PC to realize PC software control.
	Serial communication cascading output for connecting the
RS232 LOOP	RS232 IN of next unit, through single PC can control several
	units.
RF	Antenna interface of wireless control function

3.3 Hardware connection diagram



3.4 Specifications

Inputs		
	3×Video	
	1×YPbPr	
Nume / Tune	2×VGA (RGBHV)	
Nums / Type	1×DVI (VESA/CEA-861)	
	1×HDMI(VESA/CEA-861)	
	1×DP (VESA)	
Video system	PAL/NTSC	
Composite Video	AV (n n) (750	
Amplitude Impedance	1V (p_p) / 75Ω	
VGA format	PC (VESA standard)	≤2048×1152_60Hz
VGA Amplitude		
Impedance	R、G、B = 0.7 V (p_p) / 75Ω	
YPbPr format	SD/HD (CEA -861) ≤1920x1080p_60Hz	

YPbPr Amplitude	Y=1V (p_p) / 75Ω		
Impedance	Pb= 0.35V (p_p) / 75Ω		
	Pr= 0.35V (p_p) / 75Ω	1	
	PC (VESA standard)	≤2304×1152_60Hz	
DVI format	Custom output format	Width≤3840 ,	
		Height≤1920	
HDMI format	PC (VESA standard)	≤1920×1080_60Hz	
	HDMI1.3 (CEA-861)		
DP format	Display Port 1.1 (VESA	≤1920×1080_60Hz	
	standard)	31320*1000_00112	
	Video: BNC		
	YPbPr: BNC×3		
Input connectors	VGA: 15pin D_Sub(female)		
	DVI: 24+1 DVI_D		
	HDMI: HDMI port A type		
	DP: Display Port		
Outputs			
Nums/ type	2×DVI,1×VGA(RGBHV)		
	1024×768_60Hz/75Hz		
	1280×1024_60Hz/75Hz		
	1600×1200_60Hz		
	1920×1080p_50Hz/60Hz		
	1366×768_60Hz		
	1440×900_60Hz		
	2048×1152_60Hz		
VGA/DVI format	2560×816_60Hz		
	2304×1152_60Hz		
	1920×1200_60Hz		
	1200×1600_60Hz		
	1080×1920_60Hz		
	 1536×1536_60Hz		
	Custom output format (maximum horizontal pixel:3840,		
maximum vertical height:1920))	
	VGA OUT:15Pin D-sub(female	9)	
Output connectors	DVI OUT1: 24+5 DVI_I		
	DVI OUT2: 24+1 DVI_D		
Others			
Control	RS232/USB/LAN/WIFI/Remote	e control	
L	1		

LVP615 series user manual

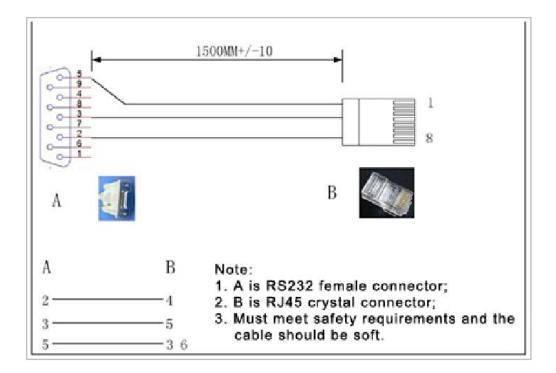
Chapter 3: Hardware connection

Input voltage	100-240VAC 50/60Hz
Power consumption	≤25W
Environment	0-45 ℃
Temperature	0-43 C
Environment Humidity	15-85%
Product Size	483(L) x 274(W) x 66.6(H)mm
Weight	G.W.: 5.7 Kg, N.W.: 4.2Kg

3.5 Product dimensions

	Ť	in the second se
274MM	286.6MM	
432MM	¥	
	66.6MM	м
465MM	·	

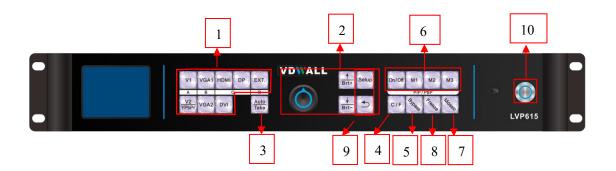
RS232 cable order:

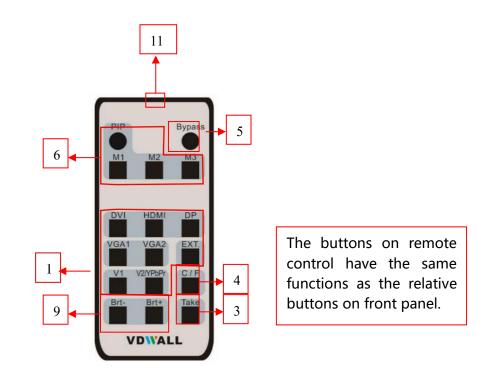


Chapter 4: Front panel and remote control instructions

LVP615 supports front panel button, remote control, RS232 and LAN control. Same printing on remote control buttons and front panel buttons, same button functions. The instructions are as below.

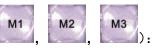
4.1 Front panel buttons and remote control schematic





LVP615 series user manual Chapter 4: Front panel and remote control instructions		
4.1.1 Input signal selection buttons		
V1 V2 YPbPr, VGA1, VGA2, HDMI, DVI	DP EXT., Auto Take): select the input signal.	
4.1.2 Setup buttons), Set the output image parameters.	
4.1.3 VGA auto adjustment button (Auto Take)au	tomatically adjust the VGA input signal.	
4.1.4 Switching time setup button (C/F): set	elect seamless switching time including 0 second (cut), 0.5	
second,1.0 second and 1.5 second (fac	de in fade out) and blend switching function.	
4.1.5 PC signal bypass output (): indicator shows the current state of th	1 1 9 - 3	

4.1.6 PIP/PBP keys (



On/Off

PIP/PBP turn on/ off button. When the indicator is on, press input signal selection to choose different group input or current input itself as the PIP signal.



M3 Switch PIP/PBP model.



On/Off

) Turn on /off mosaic function. The indicator shows the current state of Mosaic button (

mosaic.

Freeze button

4.1.7

4.1.8



turn on / off freeze function.

- Brt-Brt+) adjust output brightness level under user operation Brightness adjustment button 4.1.9 station.
- 4.1.10 remote control sensor: built- in infrared receiver.

4.1.11 remote launch window: built-in infrared transmitter.

4.2 Remote control operation instructions

- 4.2.1 Open the battery compartment on the back of the remote control, make sure the battery effective contact
- 4.2.2 Please aim remote control to the sensor area of LVP615, if there is obstacle between them, LVP615 may not receive command.
- 4.2.3 To make sure remote control has a good performance. If found improper operation, please replace new battery immediately.
- 4.3.3 Batteries shall not be exposed to, such as sunlight, fire or the like overheated environment.

Chapter 5: Basic user instructions

After LVP615 boot, it enters the operation status of last shut-down including signal switching status, PIP/POP (or Text overlay) status and mosaic status. Among them, PIP/PBP(or text overlay) status and mosaic status can only realize relative functions and cannot do other operation. Other relative operations are available under signal switching status. We illustrate the common operations as below.

5.1 Input signals selection

LVP615 supports two signal switching methods including"*One key switching*"and"*Pre.+Take switching*". The switching method can be set in user setup menu "2.6 switch mode". "*One key switch*" is default method. One key switch to new input signal through input signal selection buttons.; "*Pre.+Take switch*" only available for seamless switching. Press input buttons to preselect first. Then press **Take** button to switch from current input signal to preselected signal.

Input signal selection as follows:

Buttons	Description
V1	1* Composite video signal input (PAL/ NTSC)
V2 YPbPr	1* Composite video (PAL/ NTSC) or analog component video input
VGA1 VGA2	2 * PC analog signal input
DVI	1*DVI digital signal input
НОМІ	1 * HDMI digital signal input
DP	1* DisplayPort digital signal input
EXT. *	1* extended signal input

Note: (1) YPbPr and V2 share the same port. If need, configure the port to YPbPr in setup menu.

5.1.1 One key switch

LCD screen display as below:

Input:	HDMI
In Status:	1080p_60Hz
Output Size:	1920x1080
Output Start:	(0, 0)
Switch Mode:	One Key SW.
Switch Time:	1.5 Sec

After select input signal, The first line on the LCD display the current input signal. Like: "Input: **HDMI**" . The second line on the LCD display the signal status. If no active input, display" No input'. Meanwhile, the corresponding indicator flicker. Led screen is black. If active input, display input signal format Like: "1080p_60Hz" .

5.1.2 Pre.+Take switch

LCD screen display as below:

Curr. Input:	HDMI
Curr. In Status:	1080p_60Hz
Pre. Input:	V1
Pre. In Status:	PAL
Output Size:	1920x1080
Output Start:	(0, 0)
Switch Mode:	Pre.+Take SW.
Switch Time:	1.5 Sec

Switching signal method: press input button to preselect first, LCD screen displays the current input status and preselect input status. Then press **Take** button to switch current input to preselect input. After the completion of switching, preselect signal become the current input signal. The status of the preselect signal indicator: when the signal is valid, the indicator flicker rapidly. when the signal is invalid, the indicator flicker slowly.

Note : *Pre.+Take switch* only available for seamless switching. LVP615 supports seamless switching between any two different input groups as follow. Same group does not support seamless switching. For example, current input is V1(V1 in group A). Then, preselect signal is only from B,C,D group. Signal group as follow. :

Α	В	С	D
V1、V2	VGA1、VGA2	DVI、HDMI、DP	EXT

5.1.3 Switching time setting (C / F)

In the signal switching status, press **C/F** button continually can change the current seamless switching transition time. LVP615 can achieve seamless switching between any two different input groups of four input groups. Switching effect includes seamless switching (0s), Fade in/ Fade out (0.5s 1s 1.5s) and blend switching.

Seamless switching (Cut): On the LCD"Switch time" is 0s. LVP615 default switching is CUT.

Fade in fade out (**Fade**): On the LCD"Switch time" is **0.5s**, **1.0s or 1.5s.** In this mode, different group signals support fade in fade out switching.

Blend switching: at this moment, on the LCD, current input is the main input. Select different group input signal as blend signal. The main input will overlay in the blend signal. Press blend signal or main signal button again. Then switch to selected signal. The whole process is fade in fade out effect.

Main Input: Main In Status: Blend Input:	HDMI 1080p_60Hz V1	
Blend In Status:	PAL	
Output size:	1920x1080	
Output start:	(0, 0)	

- Note: 1. **YPbPr** does not support seamless switching, fade in fade out or blend switching. Switching between any signal and **YPbPr** signal will cause black led screen.
 - 2. Blend switching is only for signal switching. For other operations, press C/F to exit the blend switching state.

5.2 PIP / PBP operation

LVP615 allows to insert PIP window on the current display signal. That is dual image display function(PIP/PBP). PIP signal can be any input signal from other input groups or current input signal itself. (signal group refer to page 19<u>signal group list</u>) Dual image size can be preset 3 modes. The detailed operation method is as follow:

Enter PIP/PBP mode: press **On/Off** button, the indicator will be on. LVP615 enters PIP/PBP mode. Then press input signal button to select PIP signal. At the same time, LCD will display main input and pip input status and size. (as shown below)

Main Input:	HDMI
Main In Status:	1080p_60Hz
PIP Input:	V1
PIP In Status:	PAL
Main Output Size:	1920x1080
Main Output Start:	(0, 0)
PIP Output Size:	640x320
PIP Output Start:	(16, 16)

Select PIP input signal: In **PIP** mode, press button to select corresponding signal. Then this signal is configured as **PIP input**.

Select Main input signal: Press **On/Off** button to close PIP mode., Press button to select corresponding signal as main input signal. Then press **On/Off** button to enter **PIP** mode to select pip signal again.

Switch PIP/PBP mode: When PIP/PBP is on, press buttons **M1**, **M2**, **M3** directly to select display mode fast.

5.3 Mosaic operation

Multiple units LVP615 cascading can drive huge resolution LED screen. Only when the current input is DVI, press **Mosaic** button and the indicator is on. **LVP615** enters to Mosaic operation. Press the button again and the indicator is off, **LVP615** exits Mosaic.

Mosaic Input: In Status: Input Image Size: Input Image Start:	DVI 1080p_60Hz 960x540 (0,0)	
Mosaic out size: Mosaic out start: Mosaic PIP:	1920x1080 (0,0) off	
Device ID:	1	

Note:

5.3.1 In mosaic mode, PIP display is available.

5.3.2 In following conditions, **LVP615** cannot enter mosaic status.

- (1) The input signal selected is not DVI;
- (2) Bypass is on;
- (3) The resolution of DVI input signal is different from the output resolution of processor.

5.4 Other basic user operation

5.4.1 Brightness selection (Brt+, Brt-)

LVP615 supports 64 level or 100 level brightness selection. According to "8.5 bright level" selection, adjustment range has two kinds: **0~64** or **0-100**. Factory default is **0-64**. To make sure of full gray scale of output image, it always set as 64 (0-100 default value is 50) !

button	description
BRT-	Reduce LVP615 output brightness, the lowest is 0.
BRT+	Increase LVP615 output brightness, the highest is 64 or 100.

5.4.2 VGA input auto adjustment (Auto)

When LVP615 is in one key switch status and current valid input signal is VGA, press **Auto** button to adjust VGA input signal sampling parameters. Then the VGA output image can be clear and full.

This operation is normally performed when a new VGA source is connected. Auto adjustment time is depend on the signal status. Normally it's less than 1 second. Sometimes it's necessary to perform several times until the output image is clear, full and stable.

5.4.3 Full/ part display (Bypass)

In signal switching status, press **Bypass** button to switch full and part display.

This function only works when current signal is **PC** input signal (**VGA1**/**VGA2**/**DVI**/**HDMI**/**DP**). Fixed other signals to **Full** mode.

state	description	
Full	Full display, the input image is compressed and fully displayed on the led	
	screen and the indicator is off.	
Part	Part display, the input image is not compressed.Only a part of it can be	
	displayed on the screen and the indicator is on.	

Note:When the width and height of input image are lower than the LED screen real width or height value. Part display is invalid.

5.4.4 Text overlay

LVP615 allows for overlapping text, logo or flash on the current image. The operation is as below. When the current input display properly, enter setup menu"3.Text overlay", set "3.1text overlay" on, then select text source.Text can be produced by PowerPoint and other office software.

5.4.5 Image freeze (Freeze)

Press **Freeze** button and the indicator is on, the current image is frozen. Press **Freeze** button again or switch to another signal to exit Freeze status.

5.4.6 Device information view (OK)

In signal switching status, press **OK** to check the LVP615 current setting and information.

System info	
model:	LVP615
version:	V0.0.8/V0.0.8
IP:	192.168.1.8
Mask:	255.255.255.0
Gate:	192.168.1.1
MAC:	76-64-77-00-00-00
Device ID:	1

Chapter 6: Setup menu instructions

Setup menu is to set the entire processor. There are 9 section including output image.input image.text overlay. image quality. audio. communication. language. advance. PIP/PBP. mosaic.

setup	
1. Out Image	>>
2. Input Video Signal	>>
3. Text Overlay	>>
4. Color&Brightness,etc	>>
5. Audio	>>
6. Communication	>>
7. 语言/Language	>>
8. Advance	>>
9.	

After the system starts, Press **Setup** to enter the setup menu. Then press, button to select the corresponding menu item to be set. Press **OK** button to enter and **T** return back upper level menu. The following is a detailed description of each menu function:

6.1 Output image setting

Press **Setup** to enter setup menu. Press **A**, **b** button to select"<u>1.Out image</u>" item. Then press **OK** button to enter the following image"1.Out image" item.

1.Out Image	
1.1 Resolution	1920x1080_60
1.2 Out Width	1920
1.3 Out Height	1080
1.4 Out H_Start	0
1.5 Out V_Start	0
1.6 Test Pattern	off

6.1.1 Set output format

LVP615 can output image from the VGA OUT and 2 DVI OUT. There are 16 fixed output format and custom output format. (refer to page 9<u>specifications</u>). Users can select fixed output format not less that the LED screen resolution or select custom output format which can realize pixel to pixel display in concert with 2.1.1 custom DVI EDID.

Operation steps:

Press ↓to select "1.1 Resolution" item. Rotate knob to select suitable output format , like"1280×1024_60" , Press OK button, the screen will display confirmation menu. Press OK button again to confirm the output format. The device will restart automatically.

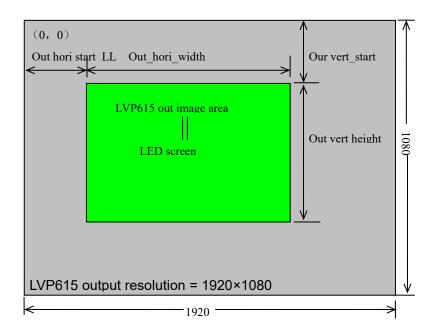
tips	
Data will reset	
Press <ok> to reset</ok>	
Press <return> to cancel</return>	

Note: to **custom output format**, after selection, need further set 1.1.1 custom width 1.1.2 custom height and 1.1.3 custom V frequency. Press parameters effective.

1.1 Custom Resolution		
1.1.1 Cus. Width	1920	
1.1.2 Cus. Height	1002	
1.1.3 Cus. V Freq.	60	
1.1.4 Apply	OK To Apply	

6.1.2 Set output image parameters

LED screen real resolution can be arbitrary. So we need set **LVP615** to output the same image as the led screen. Then the LED screen can display whole image.



As shown in the above picture: the size and location of output image of **LVP615** can be defined in 4 parameters:

Item NO.	Item name
1.2	Out_hori_width
1.3	Out_vert_height
1.4	Out_hori_start
1.5	Out_vert_start

Note: current set parameters can be changed by rotating **knob**. **knob** rotating speed can decide the step value. Press"**OK**"button to save the set parameters.

6.1.3 Test pattern

LVP615 can generate 36test patterns for LED screen testing.

If this item value is "off", turn off Test pattern. Select other number and confirm. Then one corresponding test pattern of 36 pcs will be selected.

Operation steps:

Press \downarrow button to select "1.6 Test pattern" item, then rotate knob to select suitable test pattern number and press "OK" to apply the test pattern.

1.1 Resolution	1920x1080_60
1.2 Out Width	1920
1.3 Out Heith	1080
1.4 Out H_Start	0
1.5 Out V_Start	0
1.6 Test pattern	0 - >5

Note: The current signal must connect valid input. Then the test pattern has output. Otherwise no output.

6.2 Input video signal setting

Press Setup button to enter setup menu. Press button to select 2. Input video signal and press **OK** to enter this item.

2. Input video signal	
2.1 DVI EDID	1280x1024_60
2.2 V1/V2 backup	off
2.3 VGA1/VGA2 backup	off
2.4 HDMI/DVI backup	off
2.5 V2 or YPbPr	V2
2.6 Switch mode	one key switch

6.2.1 DVI EDID

LVP615 supports custom DVI EDID. In concert with "**custom output format**", LVP615 can realize DVI input image and output image pixel to pixel display. LVP615 supports 16 fixed DVI EDID and custom EDID. Normally the parameters setting should be consistent with"<u>custom output format</u>" (refer to page28).

Operation steps: In the menu 2.1 DVI EDID, rotate **knob** to select suitable resolution and press **OK** to save data. After save data, need press **OK** to enter"2.1 custom DVI EDID" menu to set 2.1.1custom width、 2.1.2custom height and 2.1.3 custom V frequency and press () to enter APPLY and press "**OK**" to make parameters effective.

2.1 custom DVI EDID		
2.1.1 Cus. width	1920	
2.1.2 Cus. height	1002	
2.1.3 Cus. V Freq.	60	
2.1.4 Apply	OK to apply	

6.2.2 Hot spare setting

LVP615 supports hot spare of input signals. When the current input signal is lost. LVP615 will switch

to the spare signal automatically to avoid image interruption caused by the fault of signal source.

2. Input video signal	
2.1 DVI EDID	1280x1024_60
2.2 V1/V2 backup	off
2.3 VGA1/VGA2 backup	off
2.4 HDMI/DVI backup	off
2.5 V2 or YPbPr	V2
2.6 switch mode	one key switch

As shown in the above table, if "2.2 V1/V2 backup on", if V1 signal is lost, processor will switch to V2 automatically.

6.2.3 V2 or YPbPr selection

V2 and YPbPr of LVP615 share the same port and button. Need configure. Default input is V2. If need YPbPr input, then need set this port to YPbPr.

Operation steps:

In the menu of 2.5 V2 or YPbPr, rotate knob to select needed parameters and press "OK" to make them effective.

6.2.4 Signal switch mode

Press Setup to enter setup menu, press i to select "2. Input video signal", Then press OK to enter "2.input video signal ", and press to select signal switch mode "*one key switch* " or *Pre.+Take switch* ", Press OK to apply.

2.Input video signal		
1280x1024_60		
off		
off		
off		
V2		
Pre.+Take SW. ?		

6.3 Text overlay setting

3.Text overlay	
3.1 Text overlay	off
3.2 Text source	?
3.3 Text mode	< threshold
3.4 Threshold R	8
3.5 Threshold G	4
3.6 Threshold B	8

6.3.1 Text overlay operation

In the current input signal, press **Setup** and press to select"3.text overlay", Press **OK** to enter, in the menu"3.1text overlay " rotate **knob** to switch it on. Then press **to** enter"3.2text source " menu to rotate **Knob** to select text input signal. Text overlay is on. If need turn it off, enter 3.1 text overlay and switch it off.

6.3.2 Text overlay parameters setting

3.1Text mode: LVP615 can custom text mode < threshold or > threshold. < threshold means text signal image which is less than the current threshold value will overlay on the current signal. The bigger part will be automatically filtered out. > threshold means text signal image which is bigger than the current signal will overlay on the current signal.

Threshold R /G/B: This is used to set three thresholds subtitles red, green and blue respectively for a particular value between 0 to 248.

The following is the text overlay example. Text file is made by Powerpoint. Parameters are as follow:

3.3	Text mode	<threshold< th=""></threshold<>
3.4	Threshold R	248
3.5	Threshold G	248
3.6	Threshold B	248



Main picture

text

text overlay

6.4 Color& Brightness,etc.

4.Color&Brightness	Default
4.1 Input color	50
V1= <mark>50</mark>	V2=50
HDMI=50	DVI=50
DP=50	EXT=50
V1=50	
All=50	
4.2 Sharpness	normal



LVP615 supports custom color, sharpness and brightness setting. List as follow:

Item name	Definition
4.1 color	Adjustment range: 0~100, default 50
4.2 sharpness	Normal or sharp,default : normal.
4.3 brightness	According to "8.5 brightness level" setting, adjustment range
	includes 0-64 or 0-100. The factory default of adjustment range is
	0-64 and default is 64."Brightness level" can be set in factory
	setting.

Note: 1). To make sure of full gray scale of output image, these output parameters are set as default.2).Color parameters are invalid for RGB format DP, DVI and HDMI. VGA is RGB format. So setting is not available.

6.5 audio setting

5.Audio		
5.1 AD1 Config	V1	
5.2 AD2 Config	V2	

LVP615 supports 4 channels of stereo audio input signals. Three of them are HDMI and DP audio. The other two AD1 and AD2 are external input. Audio input signals for AD1 and AD 2 can be configured to match the video input signals correspondingly and switching between AD1 and AD2 is synchronous to that between the video inputs.

Operation way:

Press I button to select 5.1 AD1 config or 5.2 AD2 config menu, Rotate **knob** to select corresponding input signals and press **OK** to save.

If HDMI (or **DP**) is configured as external audio input, processor will select external audio input signal when switching to **HDMI** (or **DP** Otherwise, it will select **HDMI** (or **DP**) itself audio as input.

6.6 Communication

6.Communication	
6.1 IP:	192.168.1.8
6.2 mask:	255.255.255.0
6.3 gate:	192.168.1.1
6.4 Mac:	76:64:77:00:00:00
6.5 device ID	1

LVP615 can be remotely controlled via Ethernet. Communication setting menu is used to set network parameters including IP address, mask, gate, MAC and number the multiple LVP615 under the same IP.

The following is the method of operation:

In the menu of "6. Communication", press \downarrow to enter the setting, rotate **knob** to select parameters and press **OK** to save. The LCD screen will give tips to restart the system and do according to the prompt.

6.7 Language setting

LVP615 supports Chinese and English language.Rotate **knob** to select one and press **OK** to save.

7. Language	
7.1 语言 Language	Chinese

6.8 Advance setting

8.advance	default
8.1 ADC calibration	OK to apply
8.2 Bias 50	50
8.3 EXT.Input model	EXT.VIDEO
8.4 De-Interlace	off
8.5 Bright level	0-64
8.6 DVI hotplug	off
8.7 Wifi reset	OK to apply
8.8 Device reset	OK to apply

6.8.1 ADC Calibration

"8.1 **ADC Calibration**" is used to calibrate the white balance of analog signals to avoid color cast or extreme darkness problem. This function is only available for non ext. Input VGA,CVBS and YPbPr. The operation way is as follow:

In the current available Analog signals, enter"8.1 **ADC calibration**" and press **OK** to start to calibrate.

Note : Processors finished white balance calibration before leaving factory. Please use this item carefully.

6.8.2 Bias

To reduce noise of low gray scale images, LED display system normally will remove the low gray scale part from input signals. But this will also bring information loss of images, especially dark images like night scenes.

LVP615 can adjust" 8.2 Bias " parameters to adjust. The value range is : 0— 100. In the case dark image information lost, adding this value will bring back the lost information and fully display the image on LED display.

Note: to make sure of full gray scale of output image, the default value is 50.

6.8.3 EXT. Input Model

The option is used to configure extended module after replacing it, to make sure the module can work normally. Operation is as below:

Entering "8.3 EXT. Input Model" option, rotate knob to select relative option, press OK button to save. The setting will be active after restarting.

6.8.4 De-Interlace

This option is used to remove trembles, which might happen when inputs are CVBS/S-Video/HDMI/SDI signals interlace signals (e.g.: 1080i) and used as PIP. Operation is as below:

Enter "8.4 De-Interlace", rotate knob to select "On", press "OK" button to make setting active.

6.8.5 Brightness Level

Bright level	Description
0-64	0 is minimum brightness, 64 is default standard brightness.
0-100	Allow higher brightness value: 0 is minimum and 50 is default value.

According to different demands, user can select relative "Bright Level".

"8.8 Device Reset" will not change the parameter of "bright level". When multiple units doing cascading splice, all units must be same "bright level". Operation is as below:

Enter "8.5 Bright Level", rotate knob to select "0-64" or "0-100", and press "OK" button to confirm the setup.

6.8.6 DVI hotplug

"DVI hot plug signal" is sent by processor to graphic card or other signal source devices, as a gist to let the signal source device whether outputs DVI signal source or not. A few PC when use some software play video on extended desktop, the "hot plug signal" to the device may cause the player out of order on extended desktop. If this happens, please enter setup menu "8.6 DVI Hotplug" to turn this function off.

6.8.7 Wi-fi reset

The menu item is used for resetting LVP615's Wifi module parameter. Operations as below:

Enter "8.7 Wifi Reset", press "OK" button, there is one information on LCD screen to remind you data will reset. Press OK button to apply.

LVP615 starts to reset..

6.8.8 Device Reset

The menu is used to initialize LVP615. Operation as below:

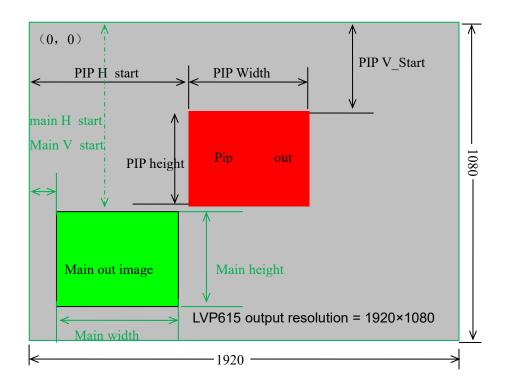
Enter "8.8 Device Reset" and press OK button, there is one information on LCD screen to remind you data will reset. Press OK to apply. LVP615 will reset and restart.

6.9 PIP / PBP setting

D. PIP/PBP	Mode=M1
D.1 PIP Width	640
D.2 PIP Height	320
D.3 PIP H_Start	16
D.4 PIP V_Start	16
D.5 MAIN Width	1920
D.6 MAIN height	1080
D.7 MAIN H_Start	0
D.8 MAIN V_Start	0

The setup option is used to set LVP615's three user defined **PIP/PBP** mode. Operation as below:

When LVP615's PIP/PBP status is open (the indicator light on "On/Off" button is lit up), press Setup button, LVP615 enters "D. PIP/PBP" menu. Then press mode button (M1, M2 or M3) to select a mode to save parameters, press 1 to select parameter option needed to adjust. For example "D.1 Main Width", rotate **knob** to change parameter, press OK button to save.



6.10 Mosaic setting

E.Mosaic (Video Wall /	App)	
E.1 LED Total Width	3840	
E.2 LED Total Height	2160	
E.3 Unit Width	1920	
E.4 Unit Height	1080	
E.5 Unit H_Start	0	
E.6 Unit V_Start	0	
E.7 Sync.Mosaic	ON	
E.8 Auto Calculation	OK To Apply	

E.Mosaic (Video W	all App)		
E.9 In Width	960	960	
E.10 In Height	540	540	
E.11 In H_Start	0	0	
E.12 In V_Start	0	0	
E.13 Out Width	1920	1920	
E.14 Out Height	1080	1080	
E.15 Out H_Start	0	0	
E.16 Out V Start	0	0	

LVP615 can maximally output 2304x1152 or customized resolution with maximal horizontal 3840 pixels or vertical 1920 pixel. To drive such high definition, LED display requires two transmission cards in cascade, so LVP615 provides 2 positions for two built-in transmission cards.

If the actual definition of LED display exceeds the maximum output definition of LVP615, you may divide the whole LED screen into pieces of smaller LED screens, then put them together in Mosaic manner by connecting multiple sets of LVP615 in parallel to integrate the smaller pieces of LED screens into a large LED display.

With frame synchronization technology, LVP615 solves the problems of misplacement and delay of output image existing in ultra-large LED mosaic, being able to provide real-time, clear and fluent display effects.

LVP615 supports multiple units cascading splicing. By this way, smaller pieces of LED screens can be integrated into a large display. For example, if the output definition of LVP615 is set as 1920×1080, and we put 2 sets of LVP605 together horizontally in parallel, it will be able to connect any LED display of up to 3840×1080 pixels

There are 16 setup options in splicing setup menu, setup options 1-8 is automatic splicing menu, 9-16 is fine adjustment, automatic setup menu is used to input splicing screen's parameters, in fine adjustment menu option adjust parameters for outputting full picture.

	Adjustment options	Descriptions
	E.1 LED total width	The whole width and height of LED screen
	E.2 LED total height	
	E.3 unit width	The LED screen resolution and position
	E.4 unit height	compared with the whole spicing screen driven
	E.5 unit horizontal start	by this unit of LVP615
	E.6 unit vertical start	
Automati	E.7 sync. splicing	ON or OFF of the sync splicing
c splicing	E.8 automatic splicing	Application of automatic splicing parameters
menu		
	E.9 in width	The size and location of DVI input image the
	E.10 in height	current unit crops
	E.11 in H-start	
	E.12 in V-start	
Manual	E.13 out width	Output parameters of LVP615, it is as same as
setup	E.14 out height	the menu 1. Output image
menu	E.15 out H-start	
	E.16 out V-start	

Enter adjustment setup: under splicing mode (Mosaic indicator lit up), by pressing "Setup" button, LVP615 enters splicing adjustment setup menu "E. Mosaic"

Return to upper level setup menu: under the mode of adjustment setup, press "**D**" button, LVP615 exits adjustment setup.

Note: when use multiple LVP615 cascading splicing, to make sure the output image have uniformity, every unit's parameters of 4.3 brightness, 4.1 inpu color, 4.2 sharpness and 8.2 bias must be same.

Operation is as below:

When the input signal of LVP615 is DVI format and the splicing mode is open (Mosaic indicator lit up), press Setup, LVP615 enters splicing menu. Press ↓button to select setup option needed to adjust, rotate **knob** to change parameter, press OK button to save.

Operation is as below :

In the menus E.1~E.2, input parameters of whole splicing screen;

In the menus E.3~E.4, input the size and location (relative to whole splicing screen) of LED screen the LVP615 drives;

In the menu E.7 sync. Mosaic menu, select to turn the function on or off;

In the menu E.8 auto Calculation, press OK, LVP615 starts to mosaic automatically;

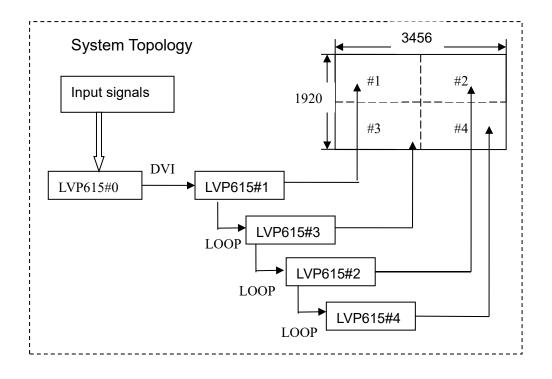
Observing image splicing effect. If any problem, enter fine adjustment menu option E.9~E.16 to adjust image.

Below is a 2×2 mosaic example using 4 sets of LVP615, telling us how to use multi-units cascade of LVP615 and what we should pay attention to.

The definition of the LED screen is 3456×1920, we can divide it into the four small pieces of LED of 1728×960 pixels as shown in figure below, each piece of small LED screen is driven by a unit of LVP615. With total 4 sets of LVP615, the 3456×1920 pixels LED screen is able to display a full picture.

#1 (1728×960)	#2(1728×960)
#3(1728×960)	#4(1728×960)

Below is the system topological diagram:



As above diagram shows, all input signals are connected to and switched by #0 LVP615. The 2 same DVI outputs of #0 LVP615 are connect to #1 LVP615 and #2 LVP615. Then DVI loop to #3 and #4.

After that, the output signal of #0 LVP615 is cropped and scale up in #1 LVP615, #2 LVP615, #3 LVP615 and #4 LVP615.

Finally the image that they output will be finally displayed as a whole picture on 4 pieces of LED screens.

The parameters of the 4 units of LVP615 are as below:

Setup options		Parameter se	tups of processor		
	#1	#2	#3	#4	
E.1 LED total width	3456				
E.2 LED total height			1920		
E.4 Unit width	1728	1728	1728	1728	
E.5 Unit height	960	960	960	960	
E.6 Unit horizontal	0	1728	0	1728	
start					
E.7 Unit vertical start	0	0	960	960	
E.8 Synchronization					
splicing			ON		

In order to ensure all output images are synchronous to each other, please note the following settings:

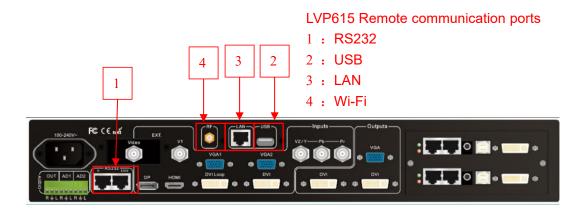
- 1. The input signals can be only DVI signals, and if the processor is in mosaic mode, it will be unable to switch input signals;
- 2. All the 5 processors must be set the same output resolution.

Chapter 7: Remote control instructions

LVP615 opens RS232 control protocol supporting PC, Android or IOS intelligent remote control terminal. Here we instruct the hardware connection and software operation as below.

7.1 Hardware communication

LVP615 remote control ports include RS232, USB, Wired network and Wifi control. As below we illustrate hardware communication connection and setup respectively.



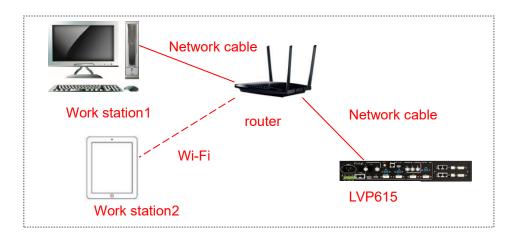
7.1.1 RS232 and USB

RS232 is common port for remote control. When use RS232 control, we only need to use an RS232 cable to connect PC to processor's RS232 port, then we can use software to remote control processor. When PC does not have RS232 port, USB control method can be used.



7.1.2 Wired network

LVP615 built-in network convert RS232 module, after wired network connecting LAN and setting relative network configuration parameters (refer user manual page 38 "6. Communication"), LVP615 has been a work station in the local area network. So another terminal device in the local area network can control the LVP615 through software. As the picture below, through software, anyone of terminal (work station) in the local area network can control the LVP615 in the local area network can control the local area network can control the LVP615 in the local area network can control the LVP615 in the local area network can control the LVP615 in the local area network by remote method.



7.1.3 Wi-Fi connection

LVP615 is built in WIFI module. Through this module, user can achieve Wi-Fi remote control of LVP615. The module supports 2 WIFI connection methods:

First., Wireless Router, another wireless device connects the module directly and control.

Second, Through WIFI connect wireless Router and become a work station in the local area network, so another terminal device in the local area network through software to control LVP615 by remote method, the control method is similar through LAN port connecting.

Here are relative setup and instruction about LVP615 WIFI module and how to realize the 2 control methods.

NOTICE: When using WIFI connection, WIFI ANTENNA must be installed.

7.1.3.1 Wi-Fi connection

Using laptop with wireless network, open network and share center, search and connect the wireless network named LVP615, the default WIFI password is 88888888

Configuring network be automatically obtain IP address and DNS server address, show as the picture below:



Configuring network be automatically obtain IP address and DNS server address, show as the picture below:

General	Alternate Configuration						
this cap	n get IP settings assigned automat ability. Otherwise, you need to as appropriate IP settings.						
0	otain an IP address automatically				4		
OU	e the following IP address:				•		
IP at	see		*		1		
Subr	iet mask:	4	÷.	÷			
Defa	ult gateway:		ų.	ł			
0 0	btain DNS server address automat	ically					
OU	e the following DNS server addres	sses:					
Prefe	erred DNS server:		•				
Alter	nate DNS server;	- 250	÷	2			
Πv	aïdate settings upon exit			A	dva	nced.	-

Note: if can't connect, entering setup menu "8.7Wi-Fi reset" to reset WIFI module (refer user manual

page 48), then restart and connect.

7.1.3.2 Wireless Module Configuration

1) Running wireless scan configuration software "LVP615 WIFI Config Tool.exe", the application software is as below.

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 Click "Scan" to search LVP615 in the local area network, after searching module the information display as below.

ModuleName	GroupName	Module IP	MAC Add	RSSI
LVP615	LVP615	192. 168. 7. 1	60:C5:A8:66:18:42	-0
1				

3) In scan list click relative WIFI module, when appear dialog box, type in user name (default name is admin) and password (default password is admin), software will remind "module identify successfully" and "obtain configuration parameter successfully", meanwhile software interface will display relative information.

Module certification	X
Username: admin	Authenticate successed !!!
Password: ****	Visible
OK Ca	ancle OK
	X
	e
Get co	nfig parameters successed !!!
	OK

- 4) Now you can configure module. Configuration options include Mode Setting, AP Setting, STA Setting, Serial Port Parameter Setting, Socket Setting and Advanced setup. See the configuration method step by step below:
- **Notice**: after configuring every step, you need to click save button to save configuration parameter. All modified parameters will be valid after module restarting.

a. Mode Setting

This step mainly sets the Mode and Consumption Level of module.

node selection						
node setection	AP	•	power-level	Full	-	save .

Normally we set the consumption being "Full", mode description as the table below. Select the level according to your need. After modifying configuration click "save" button to save.

Work Mode	Description
AP	Establish a encrypted wireless network, similar to a wireless router. Mainly used to reset module, or control WIFI in the status of no local area network. (Recommended)
STA	Make the LVP615 as a work station, configure and join a wireless network. It can be realized by typing in router name and password.

b. AP Setting and STA Setting

After selecting the mode, we need to configure specific parameters for the mode. See as below:

Mode config	AP	config	STA config	UAR	[config	Socket	config	super manage
AP configu	re							
wireless SS	SID:	LVP615	AP		channel	select:	2452MHz	(channel 9) 👻
SSID boardd	sast			·	IP addre	ess:	192. 168	.7.1
Encrypt sel	lect	WPA2-PS	SK .	×	subnet m	nask:	255, 255	. 255. 0
wireless PS	SK:	888888	38		DHCP ser	vice:	Open (De	fault)
							[Save

AP setting

an List							
Module	Name	GroupName	Module II	P	MAC	Add	RSS
LVP615	L	.VP615	192, 168, 7,	16	60:C5:A8:	66:AA:79	-0
	1		7				
	; AP confi; zure	g STA config	VART config	Sock	et confi	g super	mana
de config STA confi SSID:			VART config ▼ IP addr	or ()	et confi; [192.168.		Mana
STA confi	gure		▼ IP addr	ess:		. 7. 1	mana
STA confi SSID:	gure	ATION	▼ IP addr	ress: mask:	192.168.	. 7. 1 . 255. 0	Mana
STA confi	gure LVP615_STA	ATION Searc	✓ IP addr h subnet	ress: mask:	192. 168. 255. 255.	7.1 .255.0 .7.1	Mana

Click search key to find the around wireless network.

STA setting

Notice: Better use manual method instead of automatic method to avoid disconnection due to IP address changes.

c. Serial Port Parameter Setting

This step is for setting basic parameters of serial port, after modifying configuration, click "save" button to save change. As the picture below shows, the boardrate should be 9600.

lode config	AP config	STA config	UART config	Socket con:	fig super manage
VART config	ure				
boardrate:	9600	•	check bit	: None	
data length	: 8	•	stop bit:	1	•
CTS/RTS:	Disable	•			Save

d. Socket Setting

This step is for Setting basic parameter of Socket. Single or Double Socket are supported, After setting configuration, click "Save" button to save. Please notice that the local port number of Socket A should be same when configuring the PC software.

Socket configure					
Double Socket					
🔘 Open	Close				Save
SocketA config			Socket	3 config	
SocketA style:	TCP-Sever	-	Socket	8 style:	
Dest IP:	Ľ		Dest I	r:	
Dest port:			Dest p	ort:	
Local port:	25000		Local	port:	
TCP timeout:	0	(z)	TCP ti	neout:	(s)

E. A super manage

Super manage includes modifying user name and password of module (Identification information), name and group name of module, reset module and reset to default, Please set according to needs. See the picture below:

ode config Modify user			122			and group	super manage name	
user name:	user name: admin			module name:		LVP615	LVP615	
new psk: admin				group name: L		LVP615	LVP615	
confirm psl	confirm psk:			version:		1. 18. 9. 11-2. 1. 39		
		Save					Save	
Module mans	2. 	20 17 - 24 - 20		120		0.33		
Reset m	odule:	Reset		Resu	me pro	duction:	FACReset	

7.2 PC control software instructions

LVP615's control software used to control LED HD video processor LVP615. Through the software, we can realize:

- Selecting input signal switch by seamless switching or fade in fade out mode
- 3 user defined modes of double picture display or test overlay
- Turn on or off Bypass, Freeze and Mosaic functions
- Specific parameters of LVP615 setting
- Timing control function: set time for switching or select input signals
- Multi units cascading splicing function

7.2.1 Control method

As illustrated above, the PC remote control of LVP615 can realize connection by RS232, USB, LAN or WIFI. After connecting and needed configuration, we can run the control software: "LVP615 Control Software.exe"

7.2.2 Introduction of Software Interface

Double click the software, the software interface shows as below:

Rs232_Cor	n_Port: COM1 +	Network Device_	◎2 ◎3 ◎4	© 5 ○ 6 1 ▼	CH/EN ⑦ 中文 ④ English
	A	В	c	D	
Source	V1 V2	VGA1 VGA2		DP EXT.	AUTO
EXT.	ONULL OSDI O	VGA 🔿 DVI 🔅	VIDEO Pre: V	1	
				Timer	
Cut/Fade	🔘 Cut 🛛 0.55 🔘	1.0S 🔘 1.5S			
	One Key Switch		vitch	etup 🔽 Waak	Start
Switch Mode	One Key Switch	O Pre + TAKE Sv	Mitch	etup V Day V Week osaic Month	Stop
		O Pre + TAKE Sv	M3	etup Week	

As shown above, there are 9 main parts of the software:

- 1) Communication Setting
- 2) Language Setting
- 3) Signal Switch
- 4) Function and Mode Selection
- 5) Information
- 6) Timing Control Setting
- 7) Output Parameters Setting(Screen Setting)
- 8) Multi Units Cascading Splicing Setting(Quick Mosaic)
- 9) Output Resolution Setting

7.2.2.1 Communication Setup

Serial/Network 🔘 Serial 💿 Network	Device_ID		
Rs232_Com_Port: COM1 🗸		03 04 0	
192 . 168 . 7 . 1 25000	Connect	Disconnect	AutoConnect

In communication setup, first select connection method being Serial or network.

If select serial, need to select correct COM port. COM port number can be checked in PC's "device manager", show as the picture below:



The device ID number you select must be as same as the LVP615's which you need to controlled.

If select network connection, firstly must set the network connected being correct, the relative setup about wired network prefer 6. Communication (user manual page 46), wireless network setup refer user manual page 53. In IP address and port number option type in correct setup, the default setup of wired network and wifi AP mode refer the table as below.

Connection	Default IP address	Default port
LAN	192.168.1.8	7
WIFI	192.168.7.1	25000

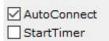
Click "connect" button, the software shows.



After the device connecting successfully, every function button in software inter face has been activated. Information area on main interface displays reminder connecting successfully.

Info	Communications equipment normal
Info	Communications equipment normal

Setting timer automatically start: to select whether the processor automatically connect serial port and automatically open the timing control in next starting up.



7.2.2.2 Language setup

CH/	EN
0	中文
۲	English

Software interface displays language selection, and the software supports two languages Chinese and English.

7.2.2.3 Signal select

		A		В		C •		D
Source	V1	V2	VGA1	VGA2	HDMI	DVI	DP	EXT.
EXT.		Osdi (VGA O	DVI ()	VIDEO			
Cut/Fade	Cut	00.55 C)1.05 ()	1.55				Timer
Switch Mode	One Ke	y Switch) Pre +	F TAKE Swit	ch	Set	up	🗹 Day

The buttons of the signal area respectively represent the corresponding keys and status indicators in the panel of the processor.

After the device is successfully connected, the software will read the input signal source you currently selected and the blue indicator above it will turn on. If the blue indicator illuminates normally, it means the input signal source you currently selected is valid; however, if the blue indicator blinks, it means there are no valid signal input.

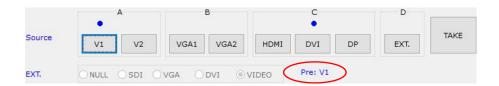
AUTO: VGA automatically adjust button, only available for VGA1, VGA2 and EXT.VGA.

Switching effect selection, can select cut (seamless switching) and fade in / fade out (0.5s 1s 1.5s) switching.

Switching mode:

Default switching mode is **one key switch**, this moment press signal button, switch input to relative signal;

If select pre + **TAKE** switching, the signal area become the style as below,



7.2.2.4 function and mode setup

The buttons in this area used for PIP, TEXT (Text Overlay), BYPASS, FREEZE, MOSAIC **PIP/PBP**: PIP switch, used to open or close PIP mode, meanwhile the bright point above the button indicates the mode open or not.

M1, **M2**, **M3**:PIP mode buttons, the blue bright point above the mode button shows which mode you have selected.

PIP	PIP/PBP	M1	M2	МЗ
				•
Function	TEXT	BYPASS	FREEZE	MOSAIC

TEXT: text overlay display switch, used open or close text overlay function; meanwhile the

bright point above the button indicates the function is open or not.

BYPASS: full and part display switch button, only available for PC signal VAG DVI HDMI DP.

Freeze: Image freeze switch button, it is available when under signal switch mode.

7.2.2.5 Information column

Info Communications equipment normal

If operation is unsuccessfully, the information area will display the reason of failing.

7.2.2.6 Timing control setup

	Current T	imer
TAKE	Time:	17:22:50
113134	Signal:	V1
	Status:	Immediate Execution
	Result:	Unknown
Start	Next Time	er
	Next Time Time:	ar 17:59:43
Stop		-
	Time:	17:59:43

The Timer of the Control Software can switch the input signal source of LVP615 as per the preset timer plan. The system provides four cycle timer modes, i.e.: Day, Week, Month, Once.

Start timing: Start: open timing control function

Stop timing: stop timing control function

Timer<<: spread or shrink timing execution list on right side.

Click "Program" to enter timer setup menu, where you can view the timer plan you already set, or add, modify, delete timer plans.

Setting timing parameter

In user interface click Program, appear setup interface of timer, show as the picture below:

DayPlan	WeekPlan	MonthPlan	One_tim	e Plan
Name	Time		Si	gnal 🥤
Time0	11:23:	58	V1	2
Time1	11:25:	6	V1	
Time2	11:26:	10	V1	()
Time3	11:27:	13	V1	
Time4	11:28:	18	V1	
Time5	11:29:	22	V1	Q
Time6	11:30:	26	V1	
Time7	11:31:	30	V1	
Time8	11:32:	34	V1	<u>(</u>
Time9	11:33:	38	V1	ŝ
Time10	11:56:	39	V1	Q.
Time11	11:58:	42	V1	
<				>
Add		Modify		Delete

Show as the picture above, there are two types of plan:

- (1) Cycle Plan
- (2) Once plan

Cycle Plan is sub-divided into three types:

- (1) Day plan (timing in one day)
- (2) Weekly plan (timing in one week)
- (3) Monthly plan (timing in one month)

User can select one type he desires The plan items of Day Plan define hours, minutes, seconds;

Each week has 7 days, so the plan items of Week Plan define week day, hour, minute, second; Each month has maximum 31 days, so the plan items of Month Plan define date, hours, minutes, seconds;

The plan items of Once Plan define year, date, hours, minutes, seconds;Cycle plan and once plan can work together.

For each type of plan, the plan items can be added, modified, deleted. For example, the figure below shows how to add plan items to a day. Plan

Plan			
Add a plan?			
2016/ 8/15	~	15:49:51	ок
Day of week		Source	OVGA1 OVGA2
1Mon	~		OVGAI OVGAZ
Day of month	1	O HDMI O DVI	ODP
15	~	O EXT.	

Select the plan already added, then you can modify or delete it.

7.2.2.7 Output date setup

In user main interface click Setup, appearing the setup interface of output parameter, in the interface user can set output parameters of processor.

Screen Prog	gram								
Text	● <th< th=""><th>reshold Green 4 +</th><th>○>Thre Blue 8 ‡</th><th>Save</th><th>PIP_Size_Position Main_Main_Hori_Width: Main_Hori_Start: Main_Vert_Height: Main_Vert_Start:</th><th>1464 218 826 132 Save</th><th>(0,0)</th><th>PIP_Mod O M2</th><th></th></th<>	reshold Green 4 +	○>Thre Blue 8 ‡	Save	PIP_Size_Position Main_Main_Hori_Width: Main_Hori_Start: Main_Vert_Height: Main_Vert_Start:	1464 218 826 132 Save	(0,0)	PIP_Mod O M2	
Bias	V1 V2 HDMI	73 (0~ 91 (0~ 63 (0~	100) Save 100) Save 100) Save 100) Save 100) Save	Reset Reset Reset Reset	PIP PIP_Hori_Width: PIP_Hori_Start: PIP_Vert_Height: PIP_Vert_Start:	640 1264 360 704 Save	MAIN Only avail	able for P	(1920,108) (1920,108)
	DP EXT YPbPr	100 (0~ 97 (0~	100) Save 100) Save 100) Save	Reset Reset	Input_Size_Position In_Hori_Width: In_Hori_Start: In_Vert_Height:	960 0 54 >=0	(0,0)		
Sharpness Audio	AD1		O SI		In_Vert_Start:	0 Save			(1920,108
Hot_Spare		□ V1 >> V □ HDMI >> □ VGA1 >>	DVI	/c	Output_Size_Position Out_Hori_Width: Out_Hori_Start:	1464 218	(0,0)		
V2/YPbPr	() V2	⊖ YF	bPr	Out_Vert_Height: Out_Vert_Start:	826 132			
MosaicMode	•	No Sync Mo	osaic OS	rnc Mosaic		Save			(1920,108)
Info								Re	fresh Exit

As shown in above figure, the button "Refresh" is used to update the information of currently processing parameters after parameters configuration is finished. Any abnormal of parameter will be reminded in info field.

Info Communications equipment normal	
--------------------------------------	--

The setting parameter in interface has zury background indicates the parameter is typing in or aren't saved, grey background indicates the parameter has been saved.

Show as the picture

Out_Hori_Width:	144
Out_Hori_Start:	218

Screen output parameters include these parts as below:

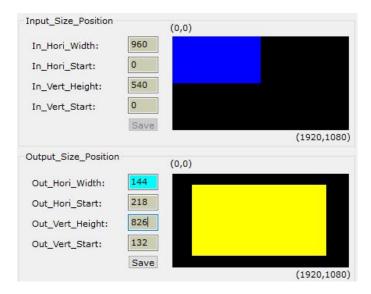
(1) Image input/output parameters configuration and mosaic mode setup

The parameters of output windows should be configured to the actual pixels of the screen to be driven.

Mosaic mode setup and input image parameters configuration apply to multi-machine parallel mosaic only. The mosaic options are provided to set whether the processor adopts synchronous or non-synchronous mosaic mode. Input image parameters are used to set the location and size of the images to be captured from input image based on the actual size of the screen.

Caution: input image parameters shall not be configured unless the following conditions are met:

- a. The input signal of the processor is DVI
- b. The resolution of DVI input signals is the same with output resolution of the processor.
- c. The processor is in mosaic state(the mosaic indicator illuminates normally).



(2) PIP/PBP display setup (location and size of PIP windows)

This menu is used to set the three PIP/POP display modes of LVP605, first, select a PIP mode to be adjusted, then enter the parameters of background, location and size of PIP windows, then click "Save" button to save the parameters in the processor.



(3) TEXT setup

It is used to set the red, green and blue threshold values of valid information of the text signals to be captured by the processor, also to set whether the text is greater or less than threshold values, select appropriate threshold values, click "Save" button to save them in the processor.



(4) Brightness, color, bias, sharpness setup

These options is used to set brightness, color, bias and sharpness of output image, after typing in desired parameter click **save** button to save, or click **reset** button to reset parameters being default value. Directly click "Normal" or "Sharp", the parameters will be saved.

Notes: the default values of brightness, color, bias are all 50.

Brightness		50	(0~64)	Save	Reset
Bias		50	(0~100)	Save	Reset
	V1	73	(0~100)	Save	Reset
	V2	91	(0~100)	Save	Reset
	HDMI	63	(0~100)	Save	Reset
Color	DVI	52	(0~100)	Save	Reset
	DP	100	(0~100)	Save	Reset
	EXT	97	(0~100)	Save	Reset
	YPbPr	88	(0~100)	Save	Reset
Sharpness	(Norm	al	Ost	harp

Configuring audio

This option is used to set AD1, AD2 audio port as the corresponding video input port, so as to realize synchronous switching of audio/video signals.

Audio	AD1	V1	~	AD2	V2/YPb ∨	Save

Hot spare setup

This option is used to turn on/off the hot spare function of the following four groups of input signals.

Hot_Spare	□V1 >> V2
	HDMI >> DVI
	VGA1 >> VGA2 Save

V2 or YPbPr Setting

You can select this terminal as V2 or YPbPr.

V2/YPbPr 🔘 V2 🔘 YPbPr	
-----------------------	--

7.2.2.8 Multi units cascading splicing rapid setup

LVP615 can drive ultra high-definition LED display through multi-machine cascade mosaic. User can complete input/output parameters configurations setup of each processor through fast mosaic menu.

In this menu, user only need select mosaic mode (namely how a large is divided into a number of smaller pieces of LED) and the actual pixels of each LED driven by each set of processor, the program will automatically calculate the mosaic parameters of each set of processor and save them in the corresponding processor.

Enter Fast Mosaic Menu: after entering main menu of LVP615, click "rapid splicing", the menu as below will pop up.

1X1								
	🔘 1X2	🔘 1X3	🔘 2X1	🔘 2X2	🔘 2X3	Row	Colum	
🔘 3X1	🔘 3X2	🔘 3X3	🔘 4X1	© 4X2			×	ОК
Effects sho	w (Please er	nter each sc	reen width	i and height vali	ues: Width<=	1024, Hei	ght<=768)	
Width	1024							
Height	000							
768								
Connect	02 03	64	0 5	6 67	08 0	q	1	- Connect
Mosaic	0- 0-	0.	0.	0. 0.	0.0			(
Resolution	1			MosaicMode				
Resolution	1		-	No Sync Mo	saic 🕐 S	ync Mosaic	Aut	to Calculate
	n ndowID: 00	0)	•	🔿 No Sync Mo	saic 🕐 S ut (WindowI		Aut	to Calculate
			justed	🔿 No Sync Mo	ut (WindowI		Adjusted	
Input (Wi	ndowID: 00 Calcula		justed	No Sync Mo Outp	ut (WindowI	D: 000) alculatec		1
Input (Wi InputWidth	ndowID: 00 Calcula	atec Adj	X	No Sync Mo Outp	ut (WindowI C	D: 000) alculatec	Adjusted	1
Input (Wi InputWidth InputHeigh	ndowID: 00 Calcula t 0	atec Adj + O + O	* *	No Sync Mo Out; Outp Outp	ut (WindowI C. utWidth utHeight	D: 000) alculatec) +	Adjusted	i
Input (Wi InputWidth	ndowID: 00 Calcula t Star 0	atec Adj	X	No Sync Mo Outp Outp Horiz	ut (WindowI Ci utWidth	D: 000) alculatec) +) +	Adjusted	1

- **Caution:** before making the mosaic settings, please make sure the following conditions have been met:
 - (1) All processors are the same with each other in brightness, color, contrast and definition.
 - (2) All processors must use the same output resolution, and make sure it the same with that of input DVI signals.
 - (3) The current input source of all processors is DVI signals, and make sure the Mosaic function is enabled (Mosaic indicator illuminates normally).

The detail step of mosaic: Before performing mosaic setup, make sure that each LED display and processor are working well, and that each LED display is able to display a full picture independently. Connect all the processors or the first processor to be adjusted via serial ports.

(1) Using software connect processors

Select the device ID of the first processor to be adjusted (from user setup item 6.5 "Device ID"), click "Connect", the processor will automatically connect the processor, the software will read and display the current parameters (e.g.: output resolution) of the processor.

Connect ●1 ○2 ○3 ○4 ○5 ○6 ○7 ○8 ○9 1 ✓ Connect

(2) Select mosaic mode

Select current mosaic mode in "Specification" field, namely set how many rows and columns the divided pieces of smaller LED will be arranged. User can also manually enter the number of rows and columns then click "OK". For the LED of 3648x2016 pixels, it should select 2x2 mosaic mode.

O 1X1	O 1X2	O 1X3	O 2X1		O 2X3	Row		Colum	in
~	-	- T	-	-	-	2	X	2	ОК
O 3X1	O 3X2	O 3X3	○ 4X1	() 4X2	() 4X3	-		-	UN

(3) Enter actual parameters of each LED

After select mosaic mode, the result show column will show the actual LED screen layout.input the height and width of each led screen.like the following picture:

Effects show (Please	e enter each screen wic	th and height values:	Width<=1920,	Height<=1080)
Width 1920	Width 1920			
Height 000	Height 001			
Width 1920	Width 1920			
Height 002	Height 003			
1080 002	1080 003			

(4) Parameters configurations of the first processor

Select the No. of the LED for showing effect in the field "Effects show" (we select the first LED 000), click "Auto calculate", the processor will automatically calculate the due parameter values of current processor based on the parameters entered in "Effects show". Select the Mosaic mode you desire, and select Sync Mosaic for the LED, the software will pop up the message "Configuration is successful". Click "Set" button respectively in input and output field, the software will automatically save the parameters that it worked out in current processor.

Caution: both input and output parameters of LVP615 must be even, but the results of auto calculation may be odd, if so, it is necessary to set an adjusted value to correct the parameters to be even, then you can click "Set" to save it.

Resolution 1920x1080@60Hz			MosaicMode No Sync Mosaic O Sync Mosaic				Auto Calculate				
Input (Window	VID: 000)					Output (Windo	wID: 000) —		<u></u>	
	Calculated		Adju	usted			Calculate	c	Adju	isted	
InputWidth	960	+	0	-		OutputWidth	1920	+	0	÷	
InputHeight	540	+	0	-		OutputHeight	1080	+	0	÷	
HorizontalStar	0	+	0	÷		HorizontalStar	0	+	0	÷	
VerticalStart	0	+	0	e	Set	VerticalStart	0	+	0		Set

(5) Parameters configuration of other processors.

Connect other processors to be set in turn using RS232 cable, select device ID, select No. of corresponding LED following above step 4), the system automatically calculates the parameters of the processor, then select Mosaic mode. Complete parameters configurations of other processors in this way.

Output resolution setting

Outpu	t_Re	solut	ion	
1920x108	0@6	0Hz	~	
Width				
Height				
Hz		Hz	Save	
	ſ		OK	-

At the main interface of LVP615 control software, Click **Resolution** And then the above interface will appear. In this interface, the user can set the output resolution.

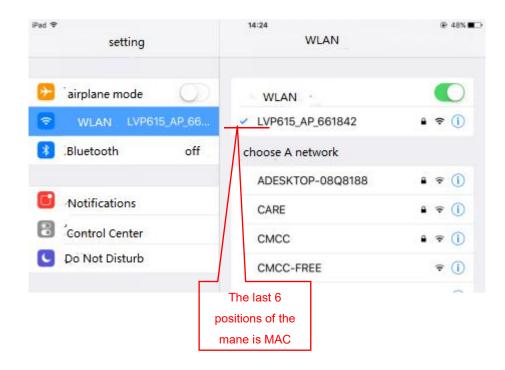
Setting output resolution: click downward triangle to select a proper output resolution, processor will apply the resolution selected automatically. If select custom resolution, you need to set the width, height and frame, after configuring click **OK** to apply the resolution.

7.3 Using APP for remote control

LVP615 supports to be controlled by mobile device for example tablet computer and mobile phone. User can download the APP and install. IOS platform can download and install the APP by link:<u>https://itunes.apple.com/cn/app/lvp615/id1129709980?mt=8_</u>or by scan the two-dimension code below.Below we illustrate the remote control about using IOS platform's LVP615 control APP.

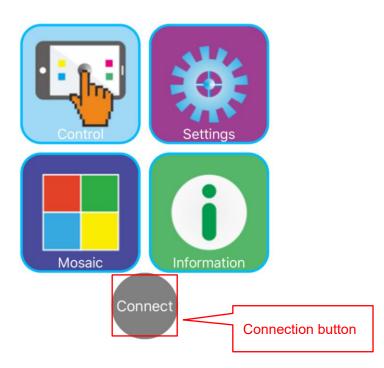
7.3.1 Connection

Firstly, through local area network (LAN interface) or WIFI connect LVP615 and mobile device installed APP. In here we illustrate by using router function of LVP615'S wifi module. Open wireless LAN switch of IOS device, in the network searched out, connect the WIFI hot point named LVP615, the default password is 888888888.



Then open LVP615 control APP to enter guide interface, show as the picture below.



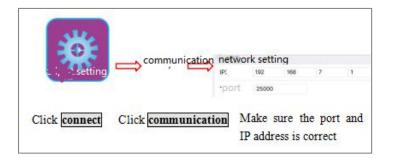


Click **connect**, If the communication is normal, this button's color will change into green from gray.



If connect unsuccessfully, click communication option in adjustment setup, to make sure the setup is

correct or not.



7.3.2 APP Operation



After connection is successful, through software, users can control LVP615, displaying as the guide interface above, APP has four function areas: operation control, setting, Mosaic setting and information. Single click guide interface, the corresponding buttons will enter selected function interface. We illustrate the four function areas respectively as below.

7.3.2.1 Operation and Control

●●●●○ 中国联通 🗢	17:39	@ Ö 82% 🔲		
<	Control			
Drop down update Signal choice & Swit	ch			
Signal choice & Swit	.cm			
V1 VGA1 A B V2 VGA2	HDMI C DVI	DP EXT. D AUTO		
Main P	re./PIP/Text	Both		
EXT. Input Model		EXT.VIDEO		
Switch Mode	Or	One Key Switch >		
Switch Time		1.5S >		
Bypass		\bigcirc		
Freeze		\bigcirc		
Mosaic				

The main functions of operation control interface include: signal switch, PIP/PBP, Text overlay and other functions.

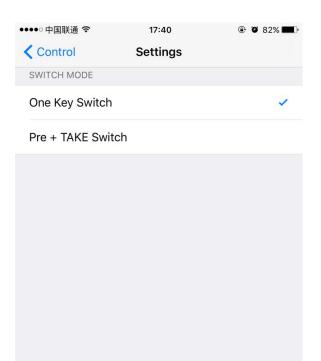
(1) Signal Selection&Switch

LVP615 could support one key switch and Preselect+Take Switch.

●●●●● 中国移动 夺	上午9:51	0 🍋 🗲					
<	Control						
Signal choice & Switch							
V1 VGA1 A B YPbPr VGA2	HDMI DP C	EXT. D AUTO					
Main Pi	re./PIP/Text	Both					
EXT. Input Model		EXT.VGA					
Switch Mode	One Ke	ey Switch >					
Switch Time		1.5S >					
Bypass		\bigcirc					
Freeze		\bigcirc					
Mosaic		\bigcirc					
PIP/PBP							

Signal Switching Mode Selection

In operation interface click signal switch mode, pop the interface as below, click to select appropriate switch mode.



Switching Time Selection

In operation interface, click switching time, popping the interface as below, click appropriate switching time.

One key switch

LVP615's default signal switching mode is that clicking corresponding button in signal source selection area to switch signal.

●●●●○中国联通 令	17:40	Ø 82% Ø
Control	Settings	
SWITCH TIME		
cut		
0.5S		
1.0S		
1.5S		~

Preselect+Take Switch

The switch method's interface as below, preselect firstly through signal source button, then through TAKE button to switch input signal source; blue button indicates current signal, green button indicates preselected signal source.

••••○中国联通 令 く	17:39 Control	④ ♥ 82% ■●
Drop down update		
Signal choice & Swit	tch	
V1 VGA1 A B V2 VGA2	HDMI C DVI	DP EXT. D AUTO
Main P	Pre./PIP/Text	Both
EXT. Input Model		EXT.VIDEO
Switch Mode	0	ne Key Switch >
Switch Time		1.5S >
Bypass		\bigcirc
Freeze		\bigcirc
Mosaic		

(2) PIP Dis

••••• 中国移动 🗢	上午9:52	ن ال
<	Control	
Switch Time		1.5S >
Bypass		\bigcirc
Freeze		\bigcirc
Mosaic		\bigcirc
PIP/PBP		
PIP/PBP		
PIP/PBP Input Sou	urce	>
M1	M2	МЗ
PIP/PBP Settings		>
TEXT		
TEXT		\bigcirc

PIP operation interface as the picture above, operation steps:

Firstly in operation interface click <u>PIP</u> to open PIP function, then click PIP signal in popping PIP signal selection interface; through mode button (M1,M2,M3), Users could select corresponding display mode. Click <u>PIP setting</u> in popping setting interface, users can set the location and size of main signal and PIP signal.

●●●○中国联通 令	17:40	Ø 82% Ø
Control	Settings	
PIP/PBP INPUT SOU	IRCE	
V1		
V2		
VGA1		
VGA2		~
DVI		
EXT.		

Interface of PIP Signal selection

••••○中国联通 令	17:40	@ Ø 82% 🔳	`	
< Control	PIP/PBP M3			
Main				cor con input chooific peromotors of
Main H_Start	480	- +		ser can input specific parameters of ain window and PIP window. Press
Main V_Start	0	_ +		and window and FIF window. Fless $\underline{\mathbb{T}}$ and $\overline{\mathbb{T}}$ to adjust.
Main Width	960	- +	a	iu - to aujust.
Main Height	540	- +		
PIP/PBP				
PIP H_Start	480	- +		
PIP V_Start	540	- +		
PIP Width	960	- +		
PIP Height	540	- +		
			1	Sketch map of main and PIP
				window's location size.
				By multi-point touching in the area,
				user could zoom in and zoom out the
				image; by single-point touching in the
				area,user could drag and adjust
				image location

(3) Text Overlay Display

TEXT		Text overlay switch	
TEXT			
TEXT Input Source	DVI >	The area will be hidden af	fter
TEXT settings	>	closing text overlay function	

Text Overlay Operation Interface is as above, operation steps as followings:

Firstly in operation interface click text overlay to open the function, then click text signal select relative input signal in popping interface; if needy to set the text threshold and other parameters, users could click text setting in popping interface.

TEXT INPUT SOURCE	
V1	
VGA1	
VGA2	
DVI	~
EXT.	

Text Signal Selection Interface

Control	Settings	
TEXT OVERLAY		
Threshold R		
	0	
Threshold G		
)	
Threshold B		
	0	
Text Mode	<	>

Text Parameter setting Interface

(4) Other Functions

Bypass	\bigcirc
Freeze	\bigcirc
Mosaic	\bigcirc

- Bypass: Corresponding with the button BYPASS on front panel, namely part or full display function button.
- Freeze: Corresponding with the button Freeze on front panel; namely image freeze function button.
- Mosaic: Corresponding with the button Mosaic on front panel, namely splicing function button.
- AUTO: Corresponding with the button AUTO on front panel, namely VGA automatic adjustment button.

7.3.2.2 Adjustment Setting

Main setting functions on adjustment setting interface include: output resolution, output image parameter, input video signal, video quality, audio, communication and language. In setting interface, clicking corresponding setting item can enter corresponding setting interface.

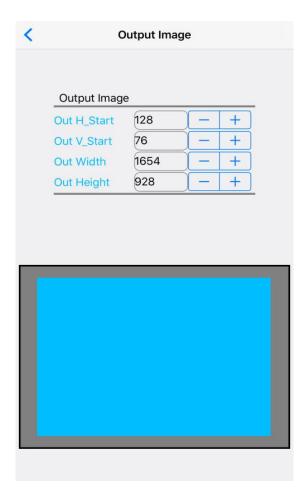
<	Settings
Resolution	1280X1024@60Hz >
Output Image	>
Input Video Signa	al >
Color & Brightne	ss, etc.
Audio	>
Communication	>
Language/语言	English >

(1) Output Resolution



Select the appropriate resolution in output resolution menu. And click setting, the processor will change to new resolution. If selecting custom resolution, user needs to set the corresponding width, height and frame frequency.

(2) Output Image Parameter



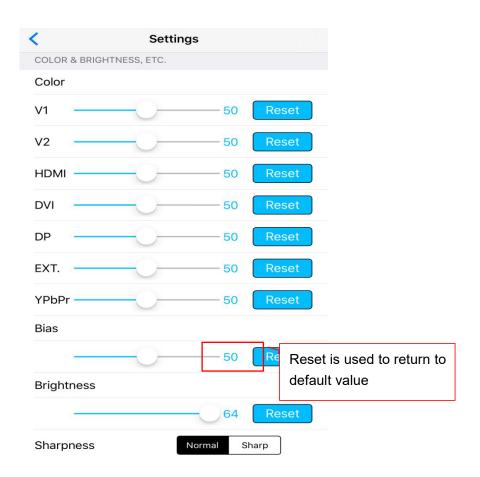
The interface is used to set the location and size of output image, user could enter parameter manually, then through 🛃 and 🖥 to adjust parameters, in diagram area of output parameters, through multiple-point touching to zoom in or zoom out image size, single-point touching to drag and adjust image location.

(3) Input video signal

User can open input video hot spare and configure V2/YPbPr port.

< Se	ettings
INPUT VIDEO SIGNAL	
V1/V2 Backup	
VGA1/VGA2 Backup	
HDMI/DVI Backup	
V2 Or YPbPr	V2 Ypbpr

(4) Image quality



In image quality interface, users could set LVP615 output brightness, sharpness, bias and set every input signal's color independently.

(5) Audio

●●●●○ 👎	•••中国联通 🗢 17:41			@ Ø 8	32% 🔳)		
<	Settings						
AUDI	O1 CONI	FIG	-				
V1	V2	VGA1	VGA2	HDMI	DVI	DP	EXT.
AUDI	AUDIO2 CONFIG						
V1	V2	VGA1	VGA2	HDMI	DVI	DP	EXT.

Audio setting interface could set LVP615's corresponding input signals of two audio inputs, in order to achieve audio and video synchronous switch.

(6) Network Setting

<	Settings				
COMMUNICATION					
IP Address	192	168	7	1	
Port	25000				

Network setting menu is used to input network parameter of LVP615, this is the premise of remote control.

<	Settings	
LANGUAGE		
English		~
中文		

LVP615 remote control APP only support Chinese and English interface presently, click language and exit language setting interface, then the language selected will be applied.

7.3.2.3 Mosaic setting

●●●● 中国移动 令 上	(午9:59 🛛 🚺 🕐			
< м	osaic			
E. Mosaic				
E.1 LED Total Width	1920			
E.2 LED Total Height	1080		Step1. Enter the size of whole	
E.3 Unit Width	1654	-	screen, and the size and location	
E.4 Unit Height	928	-	of the processor in use	
E.5 Unit H_Start	0	-	•	
E.6 Unit V_Start	0	-		
Calculation				
E.7 Sync. Mosaic		-	Step2. Open synchronous Mosaic, click auto calculation, APP will	
E.8 Auto Calculation	Auto calculation		calculate the splicing parameters	
Result		_	and apply it automatically.	
input 1920	Output 1920] г	Stan2 Confirm image Maasia	
1080) 1960]	Step3. Confirm image Mosaic effect, and make some small adjustments on mosaic parameters.	

Mosaic setting interface can achieve quick mosaic parameter setting

To achieve splicing function before entering Mosaic, need to make sure these settings as

below.

- (1) The current input signal is DVI
- (2) The resolution of DVI input signal must be as same as the output resolution of processor
- (3) Mosaic function is open correctly

Operation step described as the picture above:

- (1) Input in relative parameters of actual screen
- (2) Open synchronization mosaic, click automatic mosaic, APP calculates the parameters automatically and apply it
- (3) Confirm image splicing effect, if some problem, adjust and amend the parameter APP calculated out.

7.3.2.4 Information display



The interface includes the APP-controllable model, APP version information and company information.

Chapter 8: copyright information

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Appendix: modify the record table

version	time	description	draft
V1.0	2017.5.24	LVP615 first release	Lts
V1.1	2018.9.21	LVP615 Front panel update	Gyh