

LVP909 operation instruction

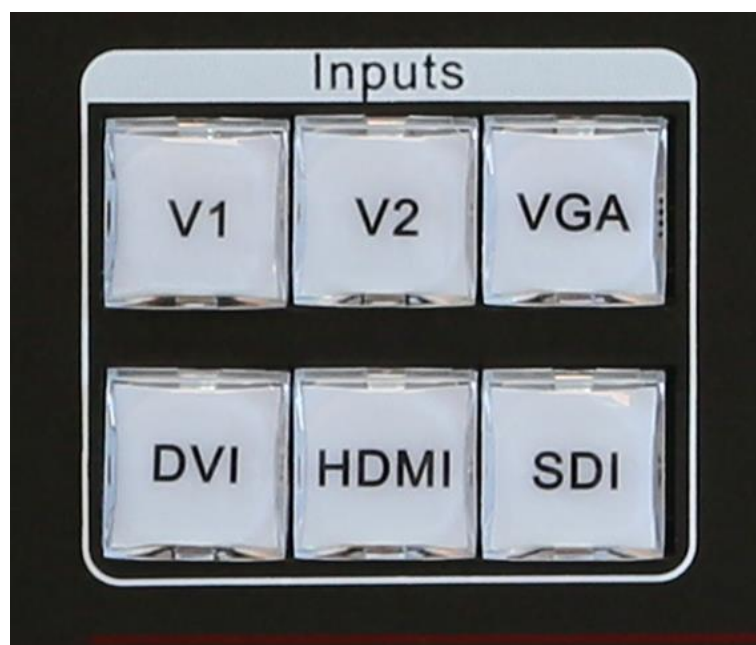


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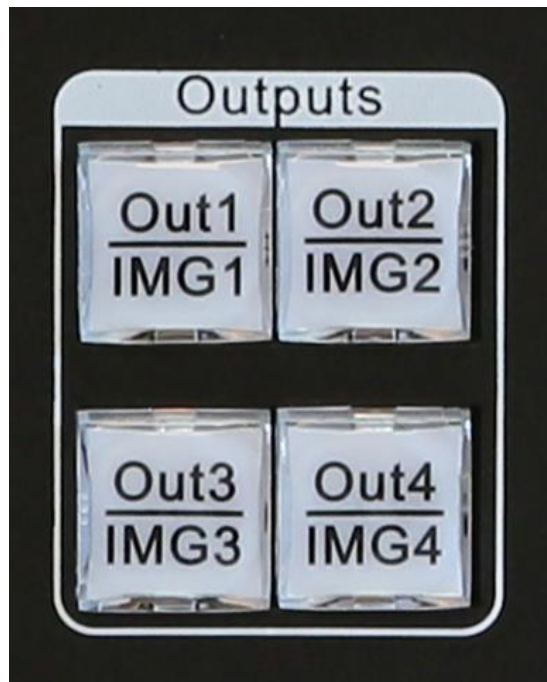
1. Signal switch buttons



1.1. LVP909 has 6 channels of input port: **V1 V2 VGA DVI HDMI SDI**;

1.2. after connecting input video source, you need LVP909 outputs which one press relative signal button, for example we need HDMI output, press HDMI button LVP909 outputs HDMI video source, of course you have connected HDMI source to the input port;

2. Output channel selection buttons

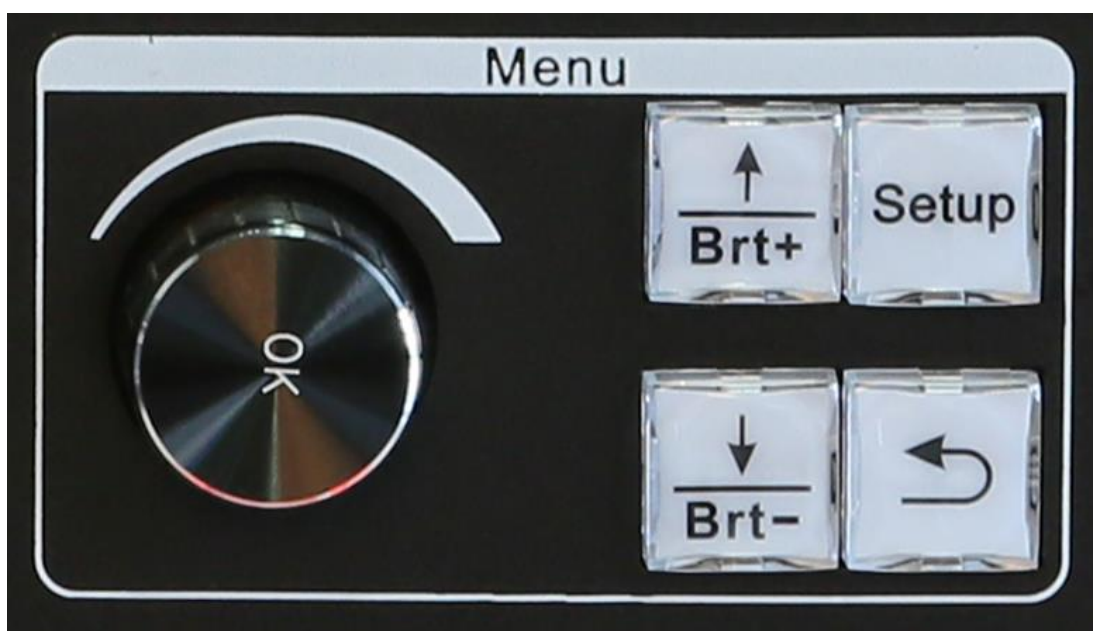


2.1. LVP909 has 4 output ports **Out1 Out2 Out3 Out4**, when configure output port parameters in user menu press relative button to select output port then configure it;


2.2. LVP909 has 4 image layers (**which in application mode 5 6 is available**) the image layer buttons are IMG1 IMG2 IMG3 IMG4, when configure

image layer parameters in user menu press relative button to select image layer then configure it

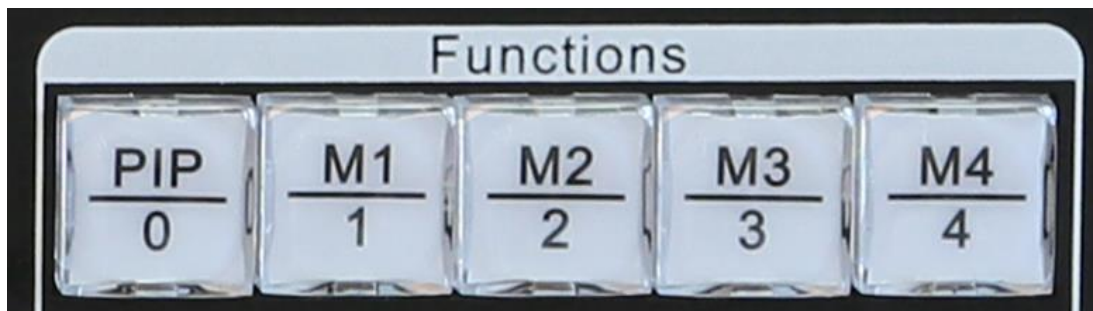
3. User setup buttons



- 3.1. **Knob OK:** when configuring parameters value rotate it to change or increase and decrease parameter value;
- 3.2. **Brt+:** after entering user setup menu, press it to select next setup option (**when not in setup configuration state press it to increase brightness**);
- 3.3. **Brt-:** after entering user setup menu, press it to select last setup option (**when not in setup configuration state press it to decrease brightness**);
- 3.4. **Setup:** press it to enter user setup menu;

3.5.  : return button, after entering setup menu press it to exit setup menu;

4. Function buttons



4.1. **PIP:** PIP (picture in picture) function switch;

4.2. **M1 M2 M3 M4:** memory buttons, LVP909 can save 4 modes in advanced (**when in application mode 1 save 4 mode for PIP, when in another mode can save 4 modes for output port parameters**);



4.3. **Take:** quick switch button, when LVP909 has opened quick switch function, after pre-selecting a video source press the button can let the pre-select video

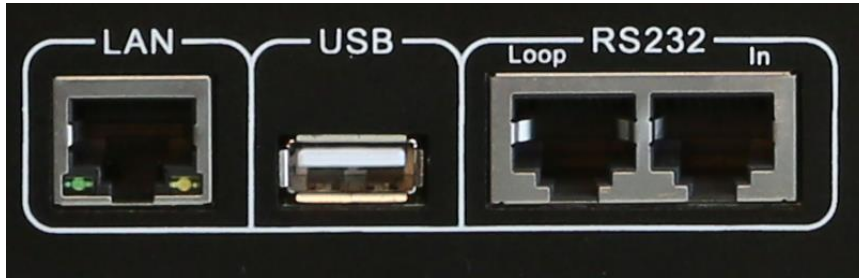
source output quickly;

- 4.4. **C/F:** switch effect selection button (seamless switching, fade in and fade out switching);
- 4.5. **Auto:** VGA signal automatically adjust button, when input VGA source to LVP909 and the video on LED screen not in the correct location and has some display problem, press the button to adjust VGA input source let it OK;
- 4.6. **Lock:** press the button to open lock function, after opening all the buttons can't work, press Lock button 3 times to unlock;
- 4.7. **Info:** press it you can refer the system information of LVP909 displaying on LCD screen on front panel;

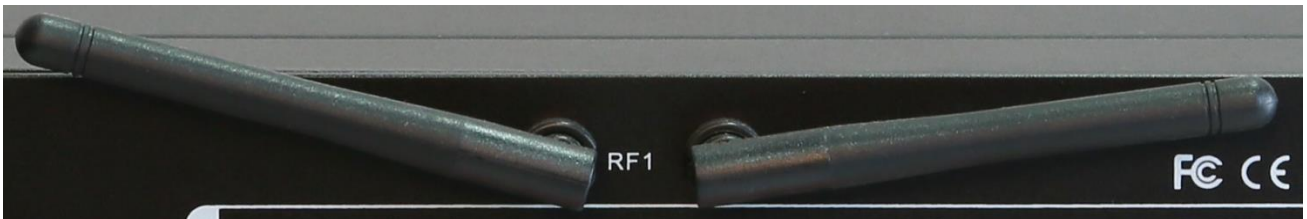
5. Power switch and socket



6. Software control port



- 6.1. LVP909 has 3 software control ports LAN USB RS232;
- 6.2. After connect control cable to computer, open the control software on PC, must select correct port on PC, for example we connect control cable to PC's COM1 port, in control software you must select COM1 port;
- 6.3. Wifi antenna: LVP909F has Wifi control function, first install APP on mobile phone then open wifi of phone to find LVP909 wifi then connect it, after connecting you can open APP on phono to control LVP909F by Wifi function;



7. Output ports



- 7.1. LVP909 has 4 output ports, **Out1 Out2 Out3 Out4**;
- 7.2. **Out4 (DVI-d) support output GAV format, so you can use DVI to VGA cable to connect the port to a monitor with VGA input port;**

8. Input ports



- 8.1. LVP909 has 6 channels of input port **SDI DVI HDMI VGA V1 V2**, connect relative format video source to relative input port, for example Laptop VGA to connect VGA port;

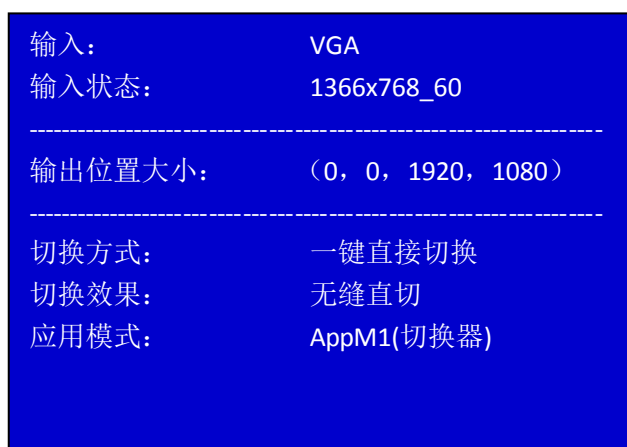
9. Sending card slot



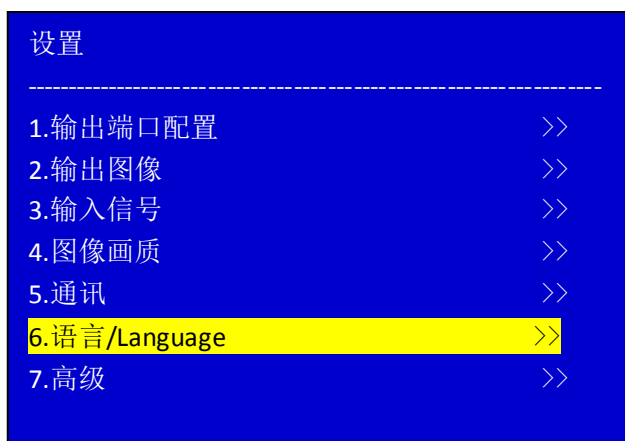
9.1. LVP909 can put two common sending cards inside, normally common sending card only has two RJ45 ports;

10. Setting language

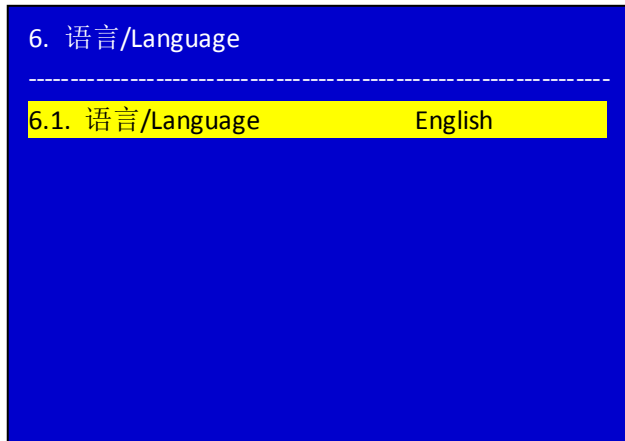
10.1. Press power switch to open processor, then you can see the interface as below;



10.2. Press Setup button to enter user setup menu, press Brt- button to select 6. 语言/language, press OK to enter language setup menu;

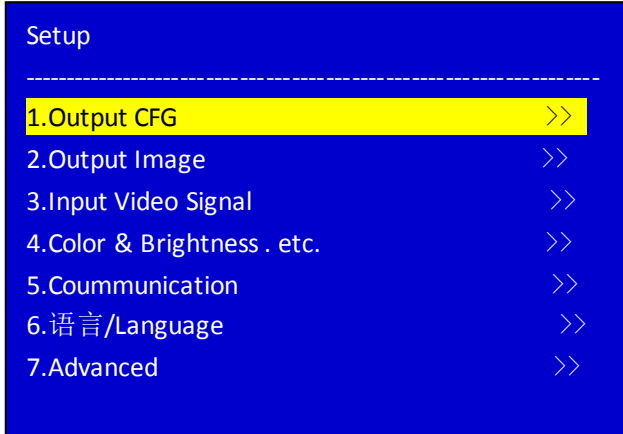


10.3. After entering language setup menu, rotate OK to select 6.1. 语言/Language English, then press OK to confirm, press return button to exit user setup menu;

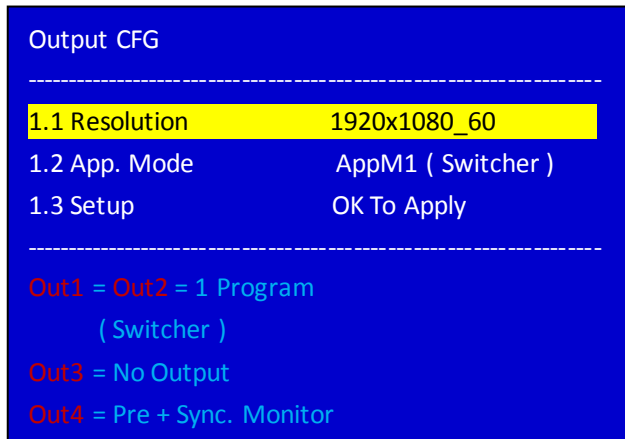


11. Setting output resolution

11.1. Press **Setup** button to enter user setup menu, press **Brt+** button to select **1.**
Output CFG, press **OK** to enter configuration menu;



11.2. Press **Brt+** button to select **1.1 Resolution 1920 x 1080_60**, rotate **OK** to
select destination output resolution, after selectin resolution press **Brt-** button
to select **1.3 Setup** press **OK** to confirm;

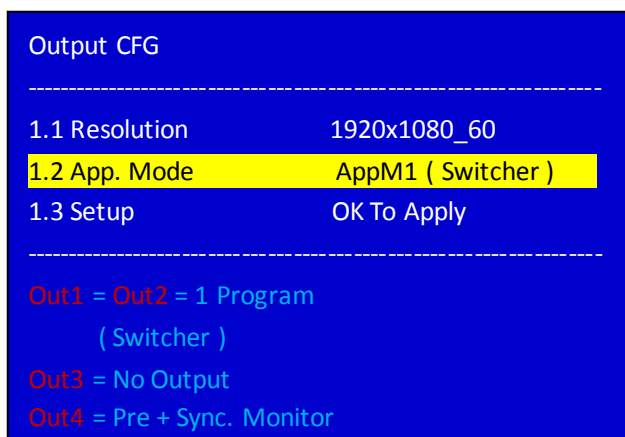


11.3. normally the output resolution must be bigger than the actual resolution of LED screen or equal, for example the LED screen (resolution 1792 X 1056) which connects to Out 1, so the output resolution we set must be bigger than this one, 1920 x 1080 resolution will be ok for this;

12. Application mode configuration

12.1. Press **Setup** button to enter user setup menu, press **Brt+** button to select **1.** **Output CFG**, press **OK** to enter configuration menu;

12.2. Press **Brt-** button to select **1.2 App Mode**, rotate **OK** to select the proper application mode you need, after selectin resolution press **Brt-** button to select **1.3 Setup** press **OK** to confirm (LVP909 has 6 application modes);



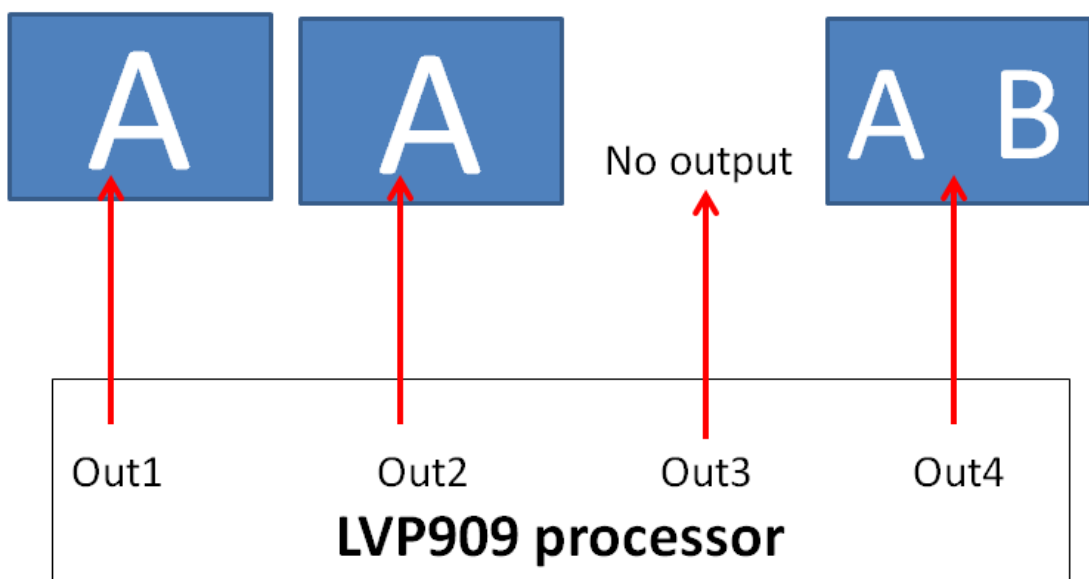
12.3. Application mode 1:

Out1 = Out2 = 1 program

(switcher)

Out3 = No Output

Out4 = Pre + Sync. Monitor



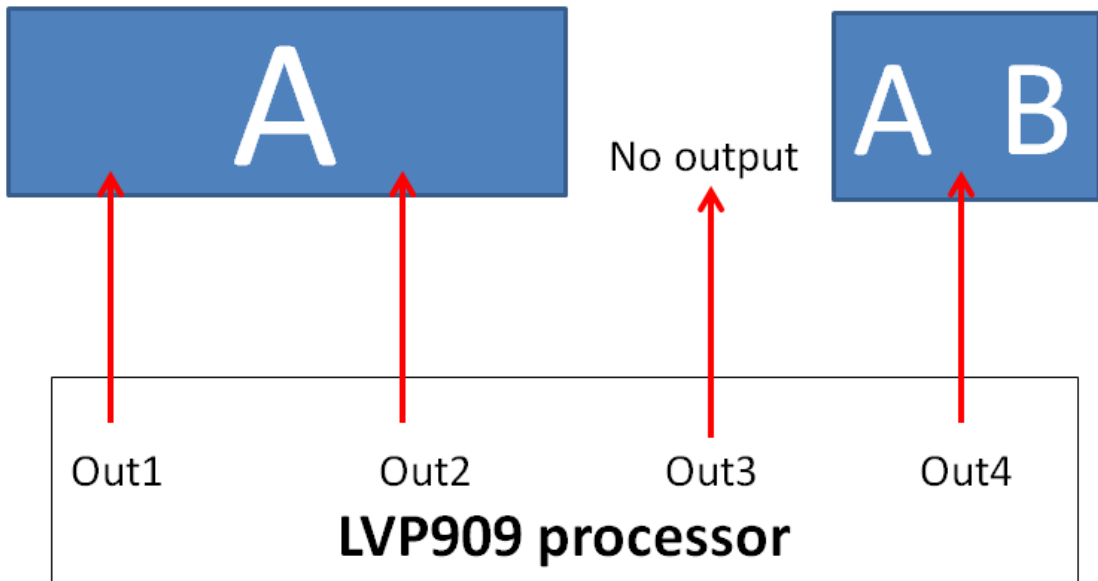
12.4. Application mode 2:

Out1 + Out2 = 2 program

(2 Mosaic)

Out3 = No output

Out4 = Pre + Sync. Monitor

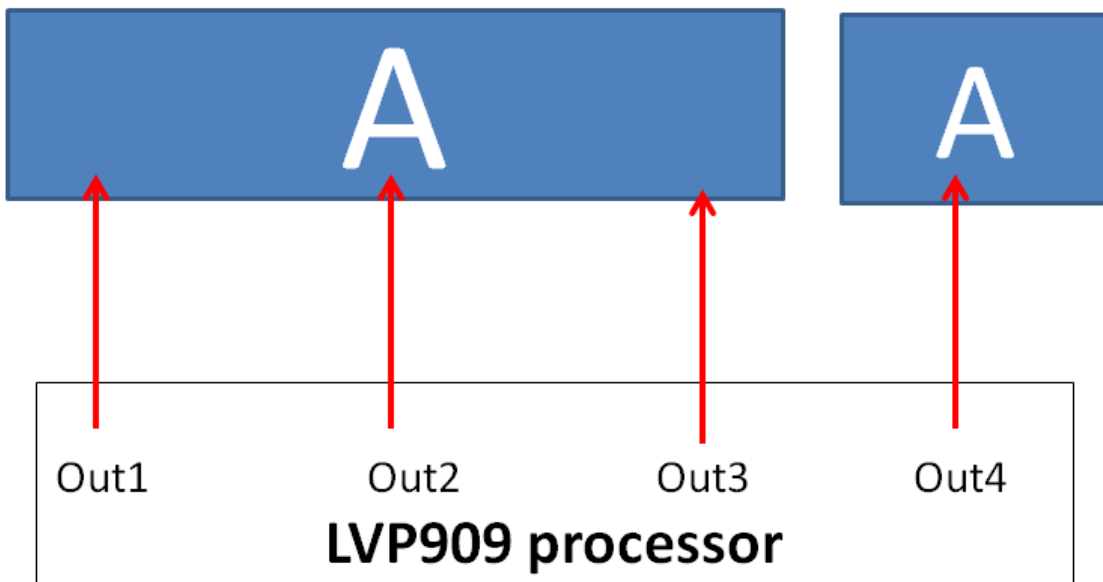


12.5. Application mode 3:

Out1 + Out2 + Out3 = 3 program

(3 Mosaic)

Out4 = Sync. Monitor

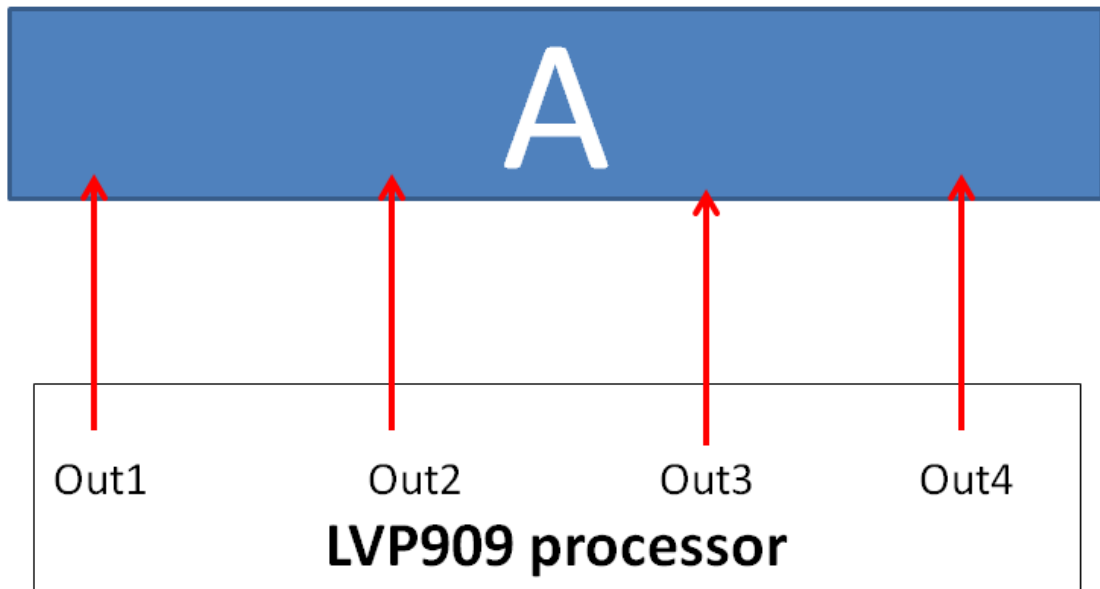


12.6. Application mode 4:

Out1 + Out2 + Out3 + Out4 = 4 program

(4 Mosaic)

No Monitor Output



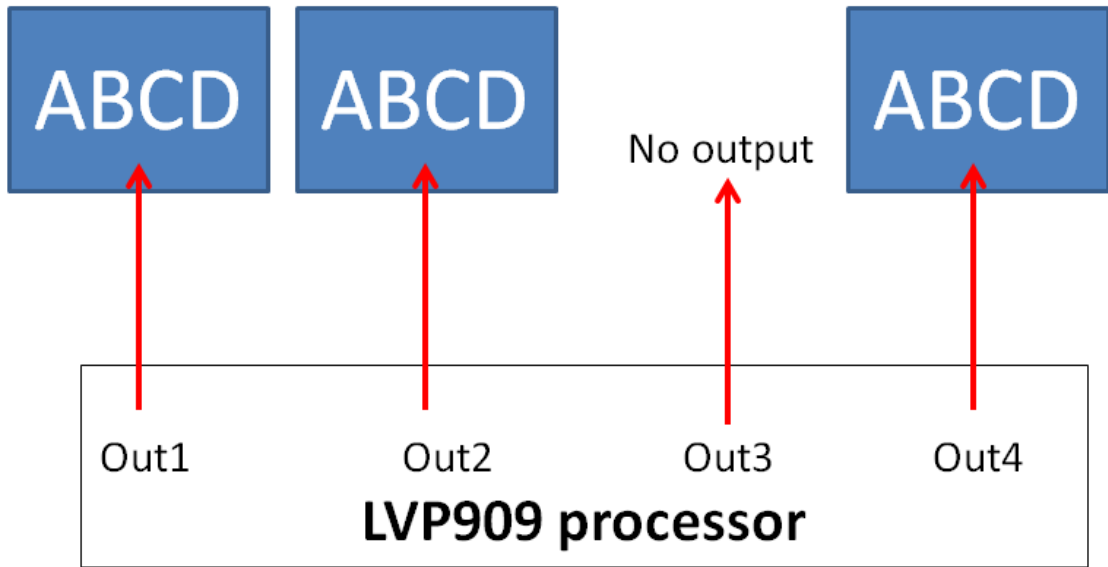
12.7. Application mode 5

Out1 = Out2 = 1 program

(4 image)

Out3 = No Output

Out4 = Sync. Monitor



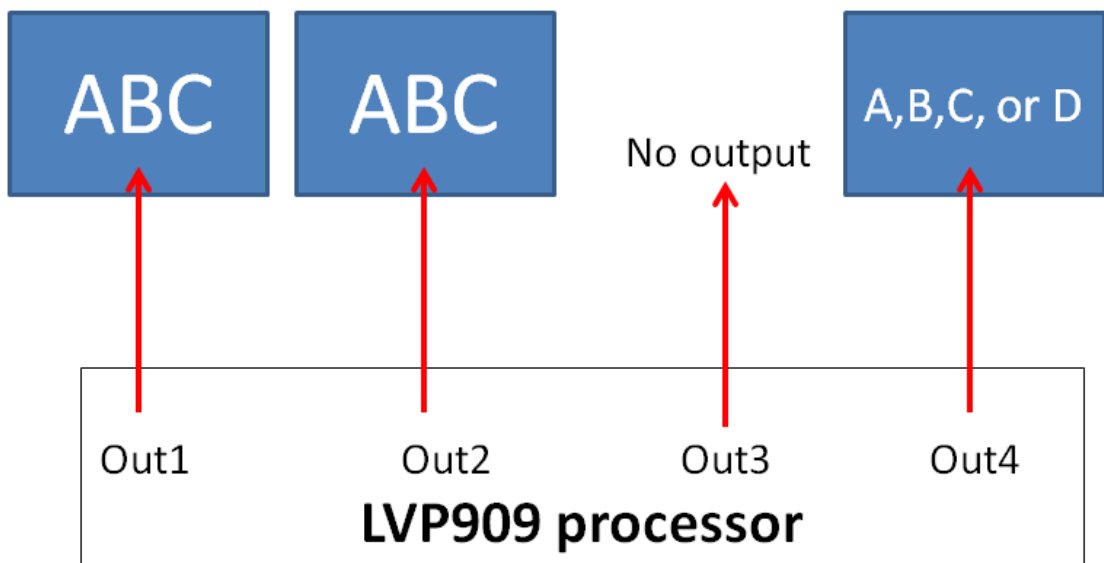
12.8. Application mode 6

Out1 = Out2 = 1 program

(3 image)

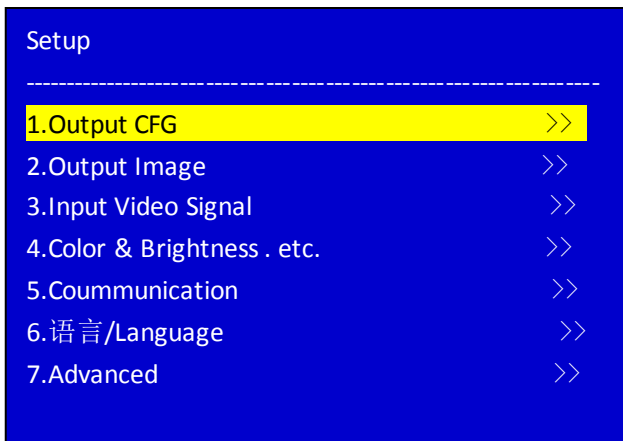
Out3 = No Output

Out4 = Input Sync. Monitor

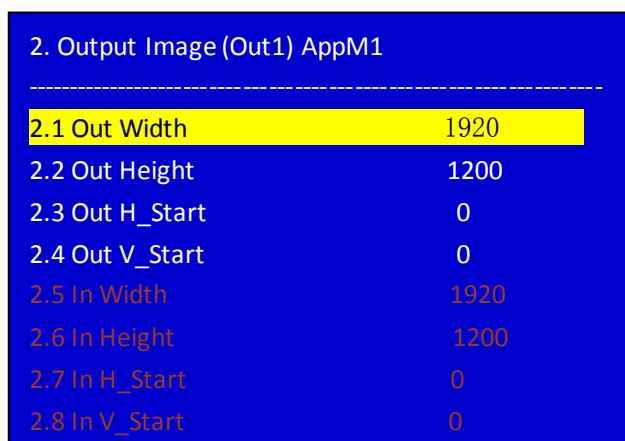


13. Setting output width and height (App 1)

13.1. Press **Setup** button to enter user setup menu, press **Brt-** button to select **2. Output Image**, press **OK** to enter output image setup menu;



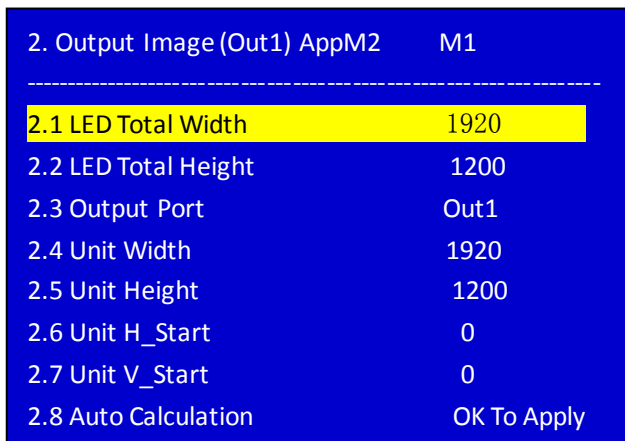
13.2. Press **Brt-** or **Brt+** button to select setup **2.1 Out Width** and **2.2 Out Height**, rotate **OK** to configure parameters, press **OK** to save parameters (**the output width and height must be as same as the width and height of your actual LED screen**);



13.3. In the setup menu **In width and height**, **In H-start and V-Start** used to crop the area of input video source then output the area, normally we don't use it;

14. Setting output width and height (App 2 3 4)

- 14.1. Press **Setup** button to enter user setup menu, press **Brt-** button to select **2. Output Image**, press **OK** to enter output image setup menu;
- 14.2. Application mode 2 3 and 4 especially used for splicing large LED screen, so in the menu we need to configure whole LED screen resolution, unit LED screen resolution and input H and Y start;
- 14.3. In application mode 2 3 4 before setup we can press **M1 M2 M3** or **M4** to select a mode to save these parameters;

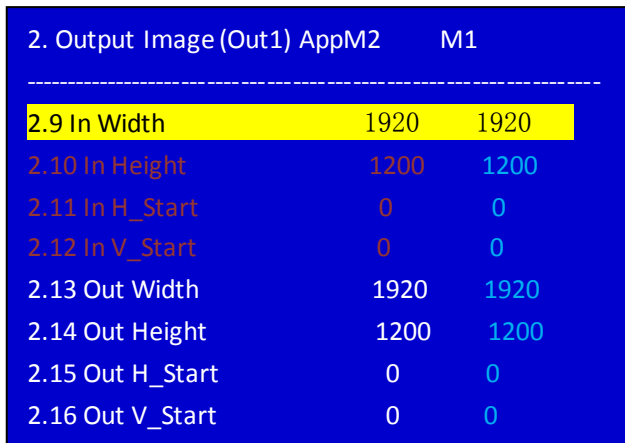


2. Output Image (Out1) AppM2 M1	
2.1 LED Total Width	1920
2.2 LED Total Height	1200
2.3 Output Port	Out1
2.4 Unit Width	1920
2.5 Unit Height	1200
2.6 Unit H_Start	0
2.7 Unit V_Start	0
2.8 Auto Calculation	OK To Apply

- 14.4. For example we have a LED screen 3840 x 1080, and two unit LED screens 1920 x 1080;
- 14.5. Press **Brt+** or **Brt-** button to select setup option **2.1 LED Total Width** and **2.2 LED Total Height**, then configure it being total width 3840, total height 1080;
- 14.6. Press **Brt+** or **Brt-** button to select setup option **2.4 Unit Width** and **2.5 Unit Height**, then configure it being unit width 1920, unit height 1080;

14.7. After configuring total and unit parameters, press **Brt+** or **Brt-** button to select **2.8 Auto Calculation**, press **OK** to apply it;

14.8. After last step some output ports we need to configure the **2.11 In H_Start** or **2.12 In V_Start** parameters, for example out2 3 4, set the parameters is to let LVP909 the output port to crop the input video source from where;

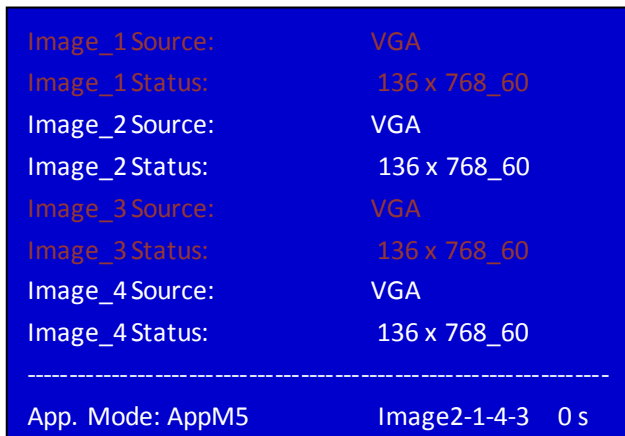


2. Output Image (Out1) AppM2 M1		
2.9 In Width	1920	1920
2.10 In Height	1200	1200
2.11 In H_Start	0	0
2.12 In V_Start	0	0
2.13 Out Width	1920	1920
2.14 Out Height	1200	1200
2.15 Out H_Start	0	0
2.16 Out V_Start	0	0

14.9. After configuring Out1 press Out2 button to select Out2 then configure it, press Out 3 or Out4 button can select them then configure them;

15. Setting output width and height (App 5 6)

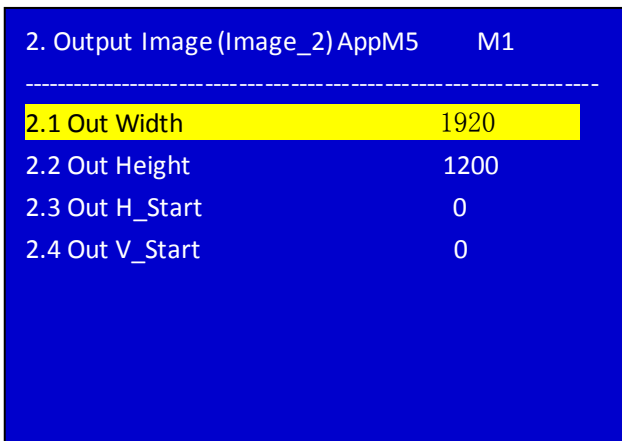
15.1. After LVP909 configuring App M5, then you can see the interface as below;



Image_1 Source:	VGA
Image_1 Status:	136 x 768_60
Image_2 Source:	VGA
Image_2 Status:	136 x 768_60
Image_3 Source:	VGA
Image_3 Status:	136 x 768_60
Image_4 Source:	VGA
Image_4 Status:	136 x 768_60

App. Mode: AppM5	Image2-1-4-3 0 s

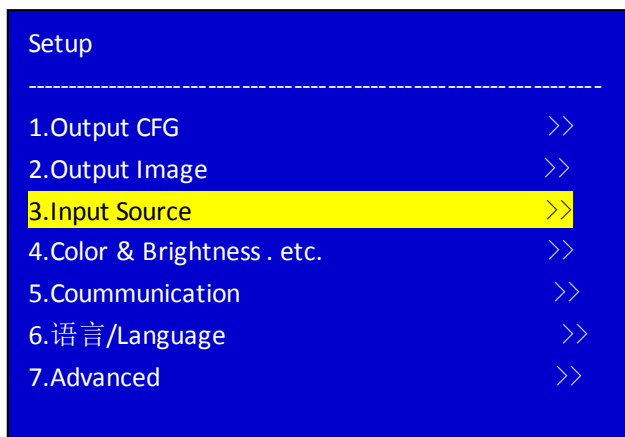
- 15.2. Press **Setup** button to enter user setup menu, press **Brt-** button to select **2. Output Image**, press **OK** to enter output image setup menu;
- 15.3. Press **Brt+** or **Brt-** button to select setup option, rotate **OK** to change parameters, press **OK** to save;



- 15.4. Before setting parameters press **M1 M2 M3** or **M4** to select a mode to save these parameters in one mode;

16. Configuring input source for App5 6

- 16.1. Press **Setup** button to enter user setup menu, press **Brt-** button to select **3. Input source**, press **OK** to enter input source setup menu;



16.2. Press **Brt+** or **Brt-** button to select setup option, rotate **OK** to select input source, press **OK** to save;

3. Image Source	AppM5		M1
3.1 Image_1 Source	V1	V2	VGA
	DVI	HDMI	SDI
3.2 Image_2 Source	V1	V2	VGA
	DVI	HDMI	SDI
3.3 Image_3 Source	V1	V2	VGA
	DVI	HDMI	SDI
3.4 Image_4 Source	V1	V2	VGA
	DVI	HDMI	SDI

17. Setting PIP (POP)

17.1. Press **PIP** button to open the function, then you can see the interface as below;

Image_1 Source:	VGA
Image_1 Status:	136 x 768_60
Image_2 Source:	VGA
Image_2 Status:	136 x 768_60

Image_1 Pos. & Size:	(0, 240, 956, 720)
Image_2 Pos. & Size:	(964, 240, 956, 720)
Display Mode	M1
App. Mode:	AppM1(Switcher)
Image2->1:	0 s

17.2. Press **Setup** button to enter PIP parameter configuration menu, press **Brt+** or **Brt-** to select setup option **D.1 Image_1 source** or **D.2 Image_2 source**, rotate **OK** to configure input video source, press **OK** to save;

D. PIP	AppM1	M1
D.1 Image_1 Source	V1 DVI	V2 HDMI
		VGA SDI
D.2 Image_2 Source	V1 DVI	V2 HDMI
		VGA SDI
D.3 Output Image		>>

17.3. Select setup option **D.3 Output Image**, press **OK** to enter setup menu, press **Br+** or **Br-** to select setup option, rotate **OK** to configure parameter value, press **OK** to save;

D.3 Output Image (Image_1)	AppM1	M1
D.3.1 Out Width	956	
D.3.2 Out Height	720	
D.3.3 Out H_Start	0	
D.3.4 Out V_Start	240	
D.3.5 In Width	1920	
D.3.6 In Height	1200	
D.3.7 In H_Start	0	
D.3.8 In V_Start	0	

17.4. In the menu the out width and height depends the window size you need (**which must be less than the actual width and height of your led screen**); in the menu out H and V start decide the PIP widow location;

17.5. In the menu set the In width and height can crop the input source, and set the In H and V start to crop the input source from where of the input source;

17.6. PIP function has two windows, when you configure they parameters, press

Out1 to select main widow, press Out2 to select PIP window,