

LED HD Video Processor --- LVP100M

User Manual V1.0



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I Safety Precaution

Danger !

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

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) Please do not plug or unplug DVI signal cable if the device is powered on.

Caution !

- 1) Please thoroughly read this manual before using this device, and keep it safe.
- 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 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.





II Accessory Package

Please unpack the product with care, and then check whether all the following items are included in the package. If anything is found missing, please contact the dealer.

Standard Accessories

The accessories supplied with this product may differ from the following pictures, but they are applicable for the regions where you live

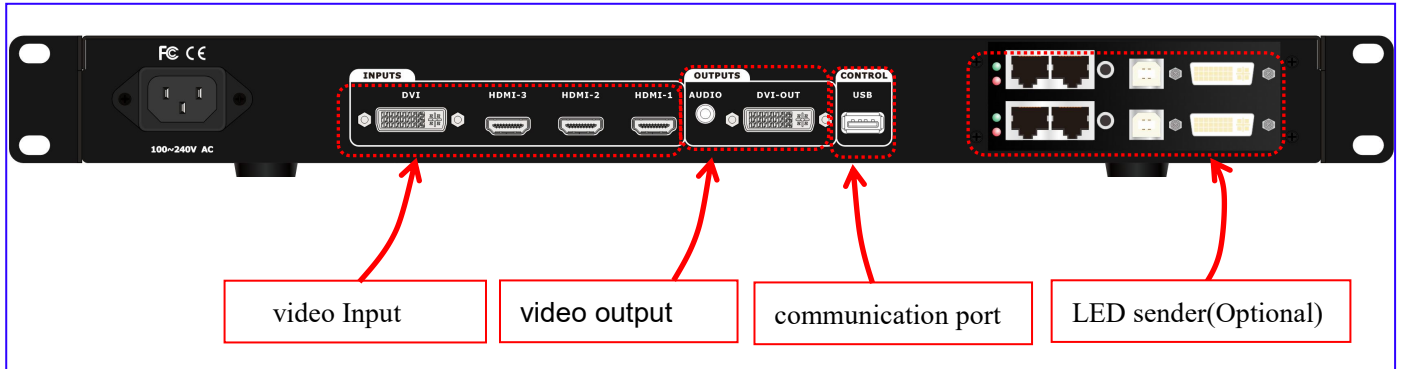
Spare List:

	
1.5m Power Cable x 1	0.5m DVI cable x 1
	
1.5m HDMI cable x 1	User Manual x 1

III Hardware And Connection

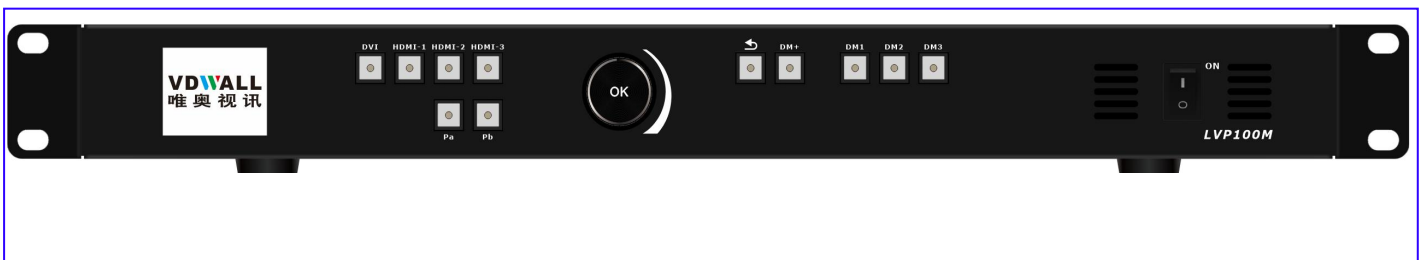
C-1) Hardware And Connection

Rear Panel Signal Terminal



Picture 1

Front Panel Control Button



Picture 2

C-2) Port Description

LVP100M support 4 video input and 1 video output, 4 input signal include 3 x HDMI1.3 and 1 x DVI.

C-2-1) Video Input Port

Port	Description
HDMI	HDMI1.3 digital input (Compatible to 2K60Hz and lower signal)
DVI	DVI digital input (Compatible to 2K60Hz and lower signal)

C-2-2) Video Output Port

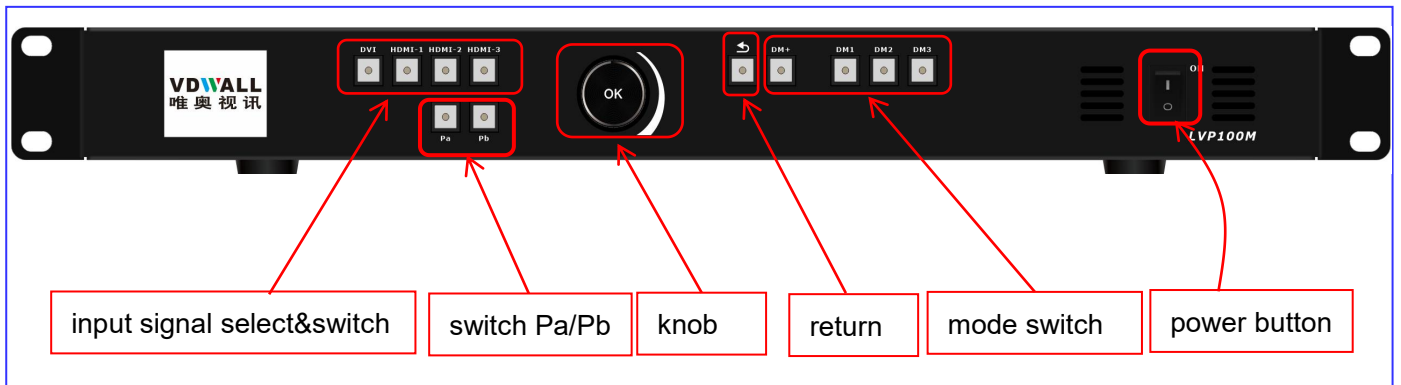
LVP100M maximum driving capability is 2.65 million pixels, support 1 x DVI output, 1 x dual channel stereo audio output.

Port	Description
DVI OUT	DVI output
AUDIO	Dual channel stereo audio









C-2-3) Communication And Control Port

Position	Port	Description
Rear Panel	USB	Communication port , establish communication between control software and LVP100M

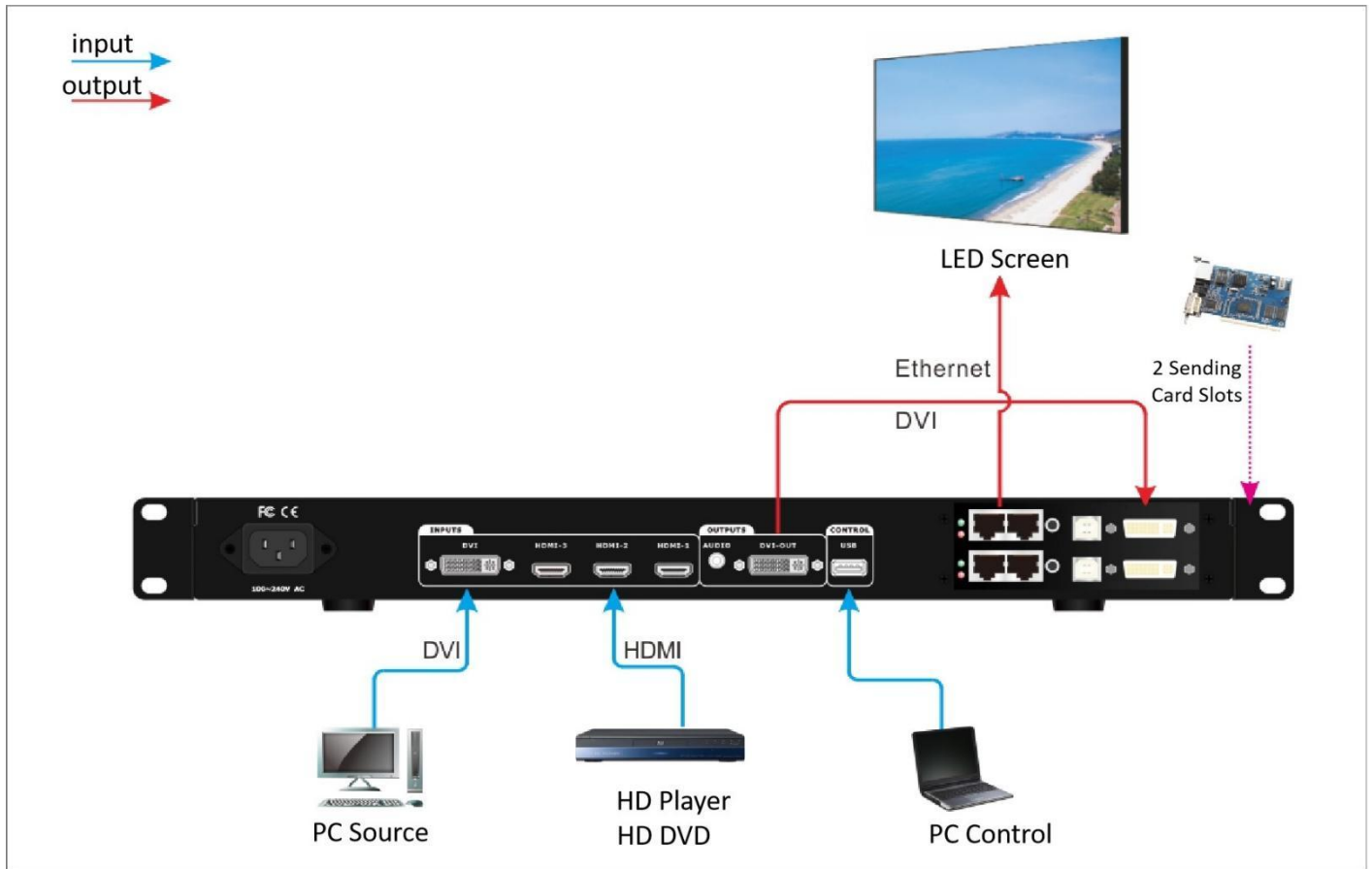
C-3) Front Panel Button Description



Picture 3

Button	Description
	Return button, in menu setup mode, press to return to upper menu, until exit menu setup. Cancel current configuration
	Knob 【OK】 button. In menu setup, rotate to select menu or adjust parameter value, press to confirm and apply adjustment
	DVI、HDMI-1、HDMI-2、HDMI-3 input signal selection button. If selected channel have valid signal, indicator light on, or else flicker
	When Pa button light on, press input signal selection button to select Pa signal source or configure PA output parameters
	When Pb button light on, press input signal selection button to select Pb signal source or configure Pb output parameters
	Enter mode selection interface
	Mode switch
	Power button

C-4) Signal Connection



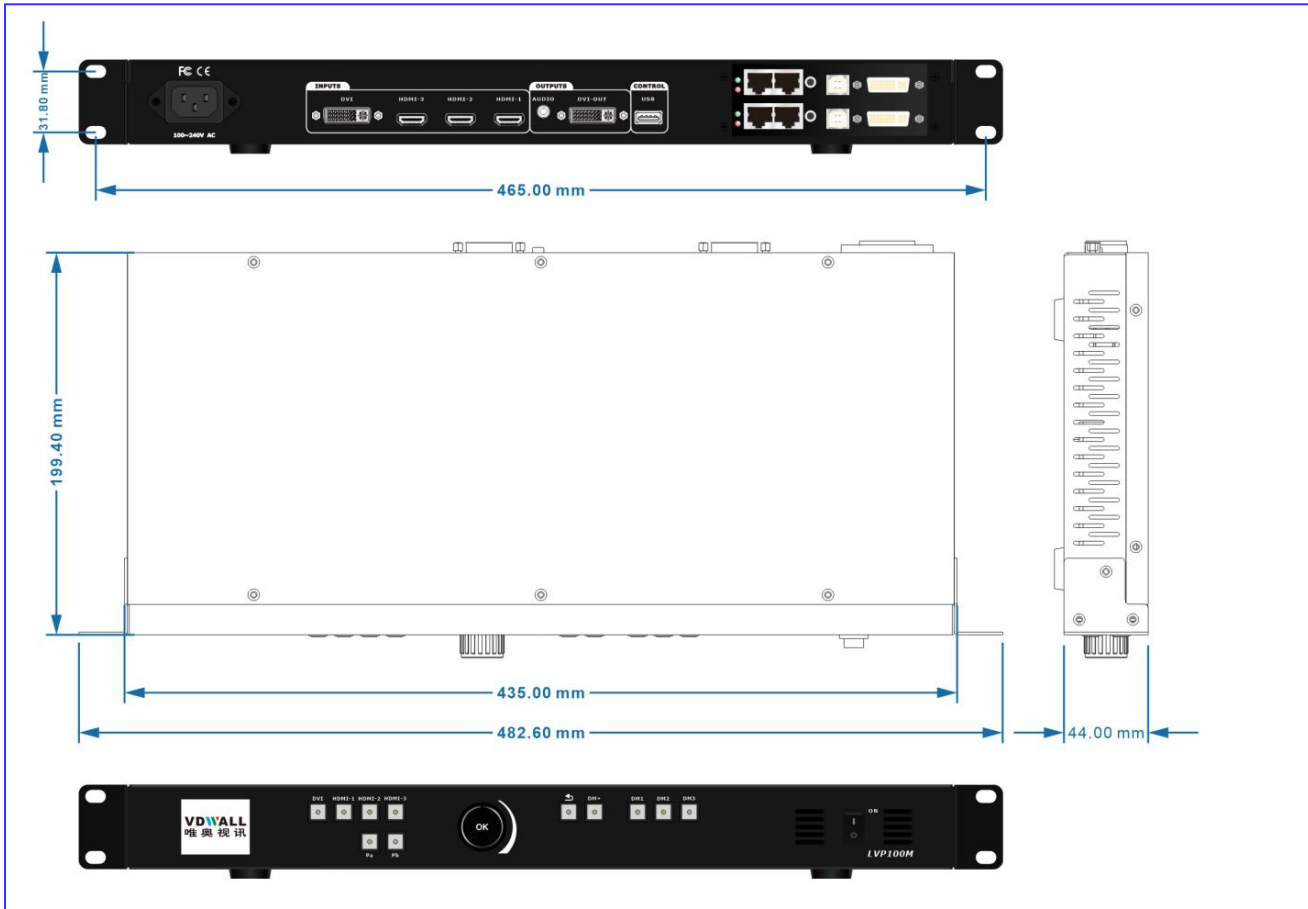
Picture 4

C-5) Product Specification

Input Signal		
Amount /Type	1 x DVI (VESA / CEA-861) 3 x HDMI (VESA / CEA-861)	
HDMI	PC (VESA Standard)	≤1920x1080@60Hz
	HDMI1.3 (CEA-861)	
DVI	PC (VESA Standard)	≤1920x 1080@60Hz
	DVI1.3 (CEA-861)	
Input Port	DVI: 24+1 DVI_D HDMI: HDMI Type A	
Output Signal		
Amount / Type	1x DVI 1x AUDIO	
DVI Format	3296×644@60Hz 1920×1080@60Hz	

	2192×952@60Hz 2656×798@60Hz 1824×1116@60Hz 1600×1270@60Hz 1392×1436@60Hz 1200×1600@60Hz 1080×1780@60Hz
Audio Output	Stereo Audio
Output Port	DVI OUT: 24+1 DVI_D AUDIO OUT: 3.5mm Audio Port
Other	
Input Voltage	100-240VAC 50/60Hz
Max Consumption	11W
Ambient Temperature	0-40°C
Ambient Humidity	15-90%
Dimension	482.6(L) x 200(W) x 44(H) mm
Packaging	535(L)x315(W)x125(H)mm
Weight	G.W: 4Kg , N.W: 2.5Kg

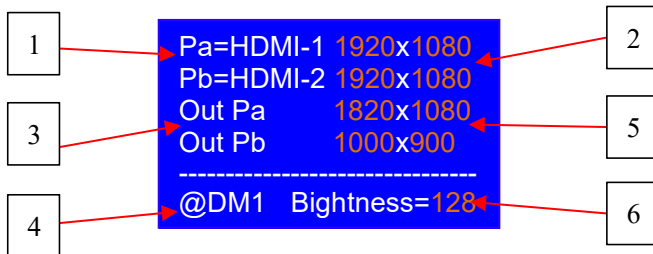
C-6) Installation Dimension



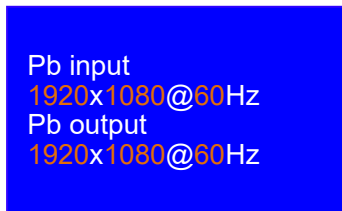
Picture 5

IV Device Operation

When **LVP100M** power on, system will automatically detect hardware and software configuration. After device boot up, LCD display interface is as following



Input display interface:



Description:

Item	Description
1	Input signal format, Pb is only valid when PIP is ON
2	Input signal connection state, if selected signal have valid source, display input resolution; Pb is only valid when PIP is ON, if selected signal have no valid source, display no signal
3	Output Pa and Pb, Pb is only valid when PIP is ON
4	Mode
5	Output image size, Pb is only valid when PIP is ON
6	Brightness

Operations allowed in default state:

- 1) Input signal selection
- 2) Mode button operation
- 3) Enter main menu, rotate knob to enter input signal interface

D-1) Main Menu

LVP100M have default operating interface, main menu setup interface and 5 menu item interface, switch different display interface by pressing **OK** and **↩** button.

In main menu interface, rotate **OK** button to select corresponding menu, then press **OK** button to enter menu item, press **↩** to cancel current setup and return to main menu.

Default Operating Interface:

```
Pa=HDMI-1 1920x1080
Pb=HDMI-2 1920x1080
Out Pa    1820x1080
Out Pb    1000x900
-----
@DM1  Bightness=128
```

Main Menu Interface:

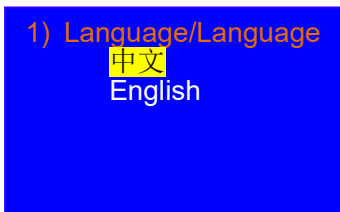
```
1) 语言/Language >>
2) Output >>
3) Input >>
4) Brightness >>
5) Other >>
```

Menu Description:

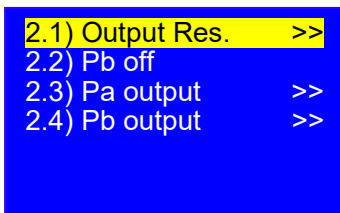
Main Menu		Menu Item	
1	Language	1	语言/Language
2	Output	2	Output Resolution
		3	PIP On/Off
		4	Pa Output
		5	Pb Output
3	Input	6	Input
4	Brightness	7	Brightness
5	Other	8	Initialization
		9	Device Info

D-1-1) Language**D-1-1) Language**

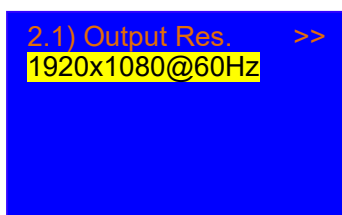
LVP100M provides dual language setup, under main menu, select 1) 语言/Language >> press **OK** button to enter language selection interface, rotate **OK** Knob to switch between Chinese and English, press **OK** button to confirm selection, press **ESC** button to cancel selection.

**D-1-2) Output**

Output selection interface, rotate **OK** button to 2) output >>, press **OK** button to output setup interface.

**D-1-2-1) Output Resolution**

Output resolution interface, rotate **OK** button to 2.1) Output Res. >>, press **OK** button to enter output resolution setup interface.

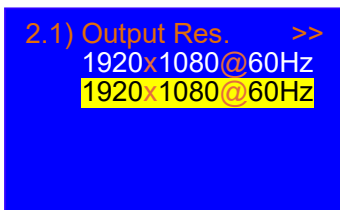


LVP100M provide 1 DVI output port with 9 different output resolution. Under main menu, press **OK** button, enter menu 2.1)Output Res., press **OK** button, then rotate **OK** button to select output resolution, the selected output resolution must be larger than LED screen physical resolution, press **OK** button to confirm and apply.

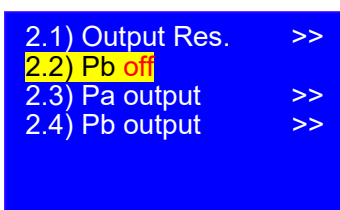
9 preset output resolution is listed as following:

Item	Preset Output Resolution
1	3296×644_60Hz
2	1920×1080_60Hz
3	2192×952_60Hz
4	2656×798_60Hz
5	1824×1116_60Hz
6	1600×1270_60Hz
7	1392×1436_60Hz
8	1200×1600_60Hz
9	1080×1780_60Hz

Menu setup as following:

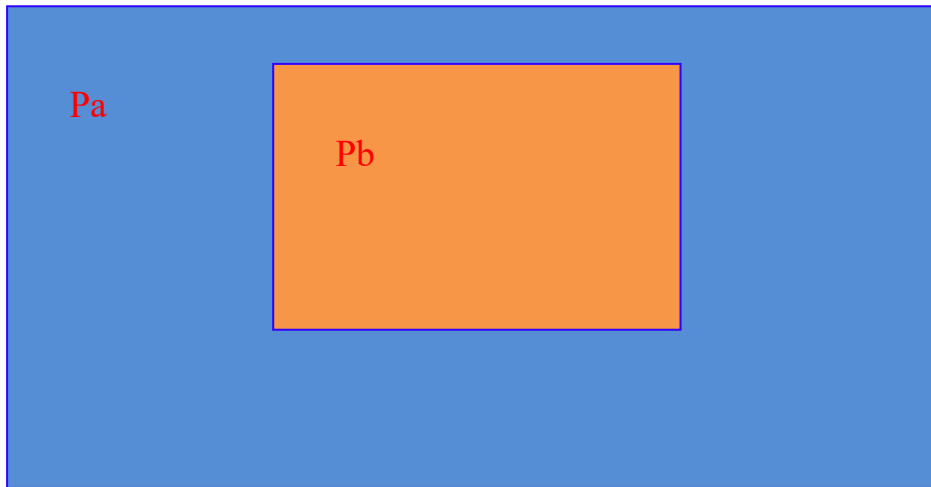


D-1-2-2) PIP On/Off



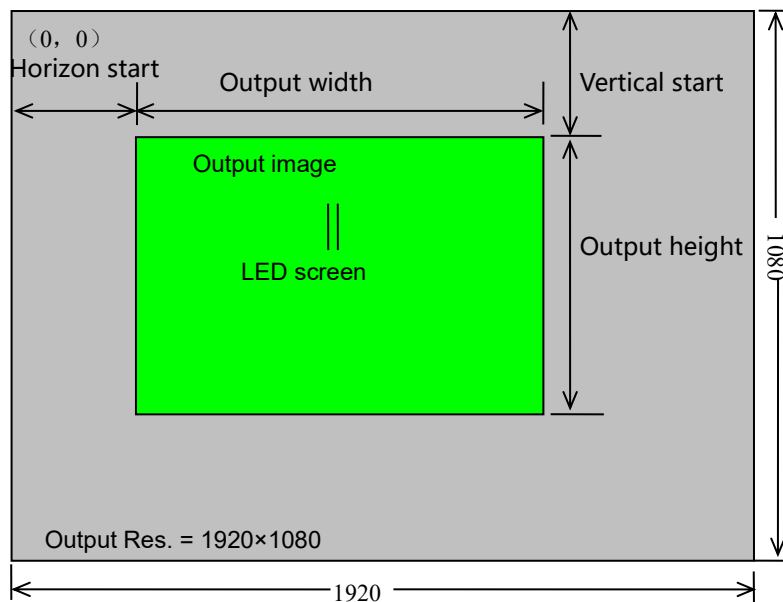
LVP100M support PIP display, enter output setup interface, rotate **OK** button to 2.2) Pb off, press **OK** button, then rotate **OK** button to select PIP On/Off.

PIP Mode:



D-1-2-3) Pa Output

LED screen physical resolution varies from different scenery, irregular pixel lattice is common application. **LVP100M** will scale the input signal to meet screen resolution, realize whole image flawless display.



As illustrated above: **LVP100M** output image size&position is determined by following parameters:

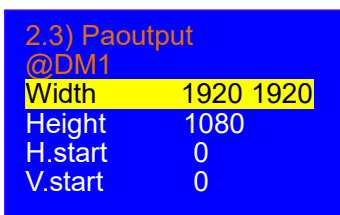
Item	Menu
1	Output width
2	Output horizon start
3	Output height
4	Output vertical start

Operation Procedure:

Press **OK** button to select corresponding menu item, rotate **OK** Knob to change value, press **OK** button to confirm and apply.

Under Pa output interface, press **DM1**、**DM2**、**DM3** button to switch preset display mode.

Press **DM+** to enter more display mode selection menu. Press **Pb** button to enter Pb setup.



D-1-2-3-1) Pa Output Width

Under main menu, select **Output width** to set output width, width range: 64~1920, Output H.start+Output width<=1920, press **OK** to confirm and apply.

D-1-2-3-2) Pa Output Height

Under main menu, select **Output height** to set output height, value range: 32~1080, Output V.start+Output height<=1080, press **OK** to confirm and apply.

D-1-2-3-3) Pa Output H.start

Under main menu, select **Output H.start** to set output horizon start, value range: 0~1920, Output H.start+Output width<=1920, press **OK** to confirm and apply.

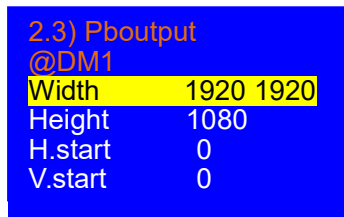
D-1-2-3-4) Pa Output V.start

Under main menu, select **Output V.start** to set output vertical start, value range: 0~1080, Output V.start+Output height<=1080, press **OK** to confirm and apply.

D-1-2-4) Pb Output

Under Pb output interface, press **DM1**、**DM2**、**DM3** button to switch preset display mode.

Press DM+ to enter more display mode selection menu. Press Pa button to enter Pa setup



```

2.3) Pboutput
@DM1
Width 1920 1920
Height 1080
H.start 0
V.start 0
  
```

D-1-2-4-1) Pb Output width

Under main menu, select Output width to set output width, width range: 64~1920, Output H.start+Output width<=1920, press OK to confirm and apply.

D-1-2-4-2) Pb Output Height

Under main menu, select Output height to set output height, value range: 32~1080, Output V.start+Output height<=1080, press OK to confirm and apply.

D-1-2-4-3) Pb Output H.start

Under main menu, select Output H.start to set output horizon start, value range: 0~1920, Output H.start+Output width<=1920, press OK to confirm and apply.

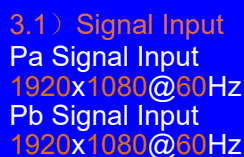
D-1-2-4-4) Pb Output V.start

Under main menu, select Output V.start to set output vertical start, value range: 0~1080, Output V.start+Output height<=1080, press OK to confirm and apply.

D-1-3) Signal Input

D-1-3-1) Signal Input

Signal input interface display input signal resolution.

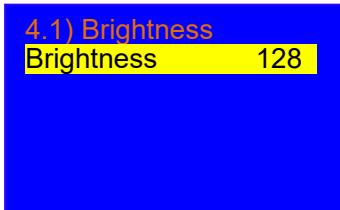


```

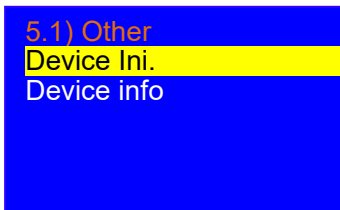
3.1) Signal Input
Pa Signal Input
1920x1080@60Hz
Pb Signal Input
1920x1080@60Hz
  
```

D-1-4) Brightness**D-1-4-1) Brightness**

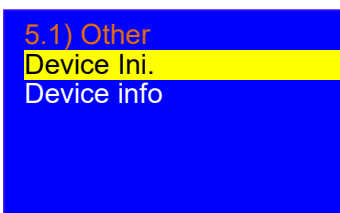
Under main menu, select **Brightness** to set image brightness level, value range: 0~128. Default 128, press **OK** to confirm and apply.

**D-1-5) Other****D-1-5-1) Device Initialization**

Under main menu, select **11) Device Ini.** to reset **LVP100M** to factory mode, press **OK** to confirm and apply.

**D-1-5-2) Device Info**

Under main menu, select **Device info** to check **LVP100M** device information, press **OK** button to confirm and check.



D-2) Preset Mode Setup

D-2-1) Preset Mode Setup



Mode Select:
DM1 DM2 DM3 DM4
DM5 DM6 DM7 DM8
DM9 DM10DM11DM12
DM13DM14DM15DM16

Preset mode setup liberate user from repeated and complicated configuration work, significantly improve work efficiency. Press **DM+** to enter mode setup, each preset mode saves all output parameters. Processor provide 16 preset modes.

Press **DM+** button, enter preset mode setup, rotate **OK** to select target mode, press **OK** to confirm and apply.

