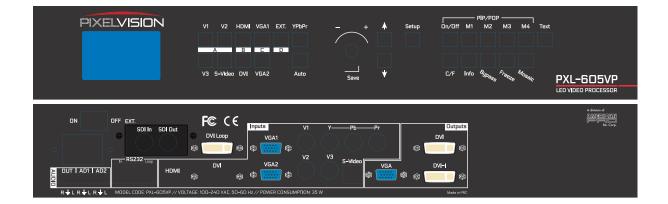
**USER MANUAL** 

# PXL-605VP

# LED HD Video Processor





http://www.pixelvision-web.com





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# **I. 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.** 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 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.





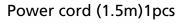
# **II. PACKING LIST**

Please unpack the product with care, 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.

User's Manual



DVI cable (0.5m), 1pcs

Net cable (0.2m)



DVI cable (1.5m), 1pcs



Rs232-RJ45 cable (1.5m)



BNC-RCA adapter: 3 pcs







User manual CD



PCB Connector (Audio)



DVI-I to VGA adapter (only for 605D)





## **III. CONNECTIONES OF HARDWARE**

#### 1. Rear View



#### 2. Port Description

#### 1) VIDEO INPUT

PXL-605VP supports 10-channel signal input, including:

Port name	Description	
V1~V3	3-channel PAL/NTSC composite video input	
S-Video	1-channel PAL/NTSC S-video input	
YPbPr	1-channel component HD signal input	
VGA1~VGA2	2-channel computer analog signal input	
DVI	1-channel computer DVI digital signal input	
HDMI	1-channel HDMI digital HD signal input	
EXT.	1-channel extended signal input	

EXT. input standard signal is 1xVIDEO, which can optically be 1xSDI/HD-SDI or 1xVGA/DVI/HDMI.

## 2) AUDIO INPUT

PXL-605VP supports 5-channel stereo audio switch. Of which, 3 channels are DVI (only available when the input signals are HDMI signals), HDMI and SDI audios, the other 2 channels are AD1, AD2 external input audio. AD1 and AD2 can be mapped to the any one of all video inputs, and will be switched synchronous to the selection of video input signals.





#### 3) VIDEO OUTPUT

Port	Description	
VGA OUT	1-channel analog RGBHV signal output, it can be connected to a local display device and used as monitor (it is strongly recommended to use this port when operating and setting <b>PXL-605VP</b> ).	
DVI OUT1 / DVI OUT2	2 same DVI digital graphic signal output, it can be connected with external LED transmission card or LED transmission box	
SDI / HDSDI (OUT)	1-channel digital video signal loop output (Only including this input with SDI/HDSDI extended model)	
DVI Loop OUT	1-channel computer <b>DVI</b> digital signal loop output	

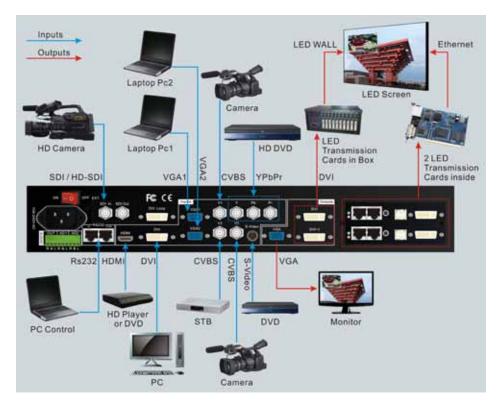
## 4) AUDIO OUTPUT (AUDIO OUT)

Corresponds to the selected video input signal, output this channel audio input signals.

## **5) SIGNALS OF OTHER PORTS**

RS232 command port is used to connect PC RS232. Then the processor can be controlled by PC software. LOOP connector can connect to another processors by net cable and one signal PC can control all processors.

## 3. Connection diagram

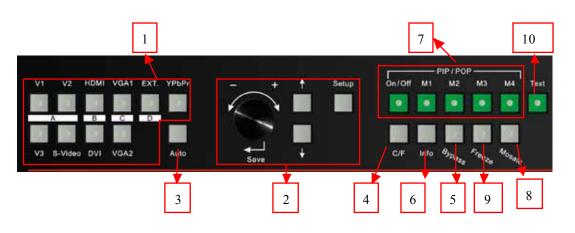






# **IV. FRONTAL PANEL OPERATIONS**

## 1. Diagram of frontal panel



# 1) INPUT SELECTING BUTTONS (V1, V2, V3, S-Video, DVI, VGA1, VGA2, YPbPr, EXT.):

They are used to select input signals.

## 2) SETUP BUTTONS (Setup, Save, $\uparrow$ , $\downarrow$ , $\leftarrow$ , $\rightarrow$ )

## 3) VGA AUTO ADJUSTMENT (Auto)

To automatically adjust VGA input signals.

## 4) CUT / FADE SWITCHING MODE (C/F):

It is used to select signal switching effects, including seamlessly switching (CUT), 0.5s, 1.0s and 1.5s Fade in / Fade out and blend.

## 5) PC SIGNAL BYPASS OUTPUT (Bypass):

It is used to switch full screen/partial screen display of PC signals, and the indicator will indicate the status of current input signal.

## 6) INFO:

It is used to display current settings and information of processor.

## 7) PIP/POP BUTTONS (ON/OFF,M1, M2, M3, M4):

ON/OFF: to turn on/off PIP/POP functions, when the indicator is on, you can select any signal coming from different groups or current signal as PIP/POP by using input selecting buttons. M1, M2, M3, M4: used to set or switch PIP/POP modes.







## 8) MOSAIC

It is used to turn ON/OFF multi-machine cascade mosaic function. The indicator indicates current splicing status.

## 9) FREEZE

It is used to turn ON/OFF screen freezing function.

#### 10) TEXT

It is used to add Text, company logo or animation.

#### 2. Button instructions (operation mode):

There are 25 buttons on the frontal panel of PXL-605VP, all these buttons will be operable after start. They have the following functions as described below:

## 1) SELECT INPUT VIDEO SOURCE

Port name	Description	
V1、V2、V3	3-channel PAL/NTSC composite video input	
S-Video	1-channel PAL/NTSC S-video input	
YPbPr	1-channel component HD signal input	
VGA1、VGA2	2-channel computer analog signal input	
DVI	1-channel computer DVI digital signal input	
HDMI	1-channel HDMI digital HD signal input	
EXT.	1-channel extended signal input (such as SDI/HDSDI)	

Switch audio input while operating above buttons; select the audio OUT.

After selecting input signals, the input signal source you currently selected such as "input=HDMI" will appear in the first line of LCD, while the status of current input signals will appear in the second line of LCD. If there are no valid signals entered, the message "no signal" will appear in LCD, and the corresponding indicator will blink and dark screen appear; if the signal is valid, the format of input signals such as " 1080p\_60Hz " will appear in LCD.

Input= HDMI 1080p\_60Hz Cut

**Notes:** if extended input was VGA/DVI/HDMI, we need choose input signal by hand swithing to current signals. Switching to "VGA", the current input signal is VGA. Switching to "DVI", the current input signal is DVI or HDMI.





## 2) VGA INPUT AUTO ADJUSTMENT (Auto)

When the current VGA input source of PXL-605VP is a valid signal, press this button, PXL-605VP will automatically adjust the sampling parameters of the VGA signals, so as to make VGA picture clean and complete.

In general, this operation is made only when new VGA signal source is to be connected in. Sometimes user need repetitively do such adjustment till VGA picture looks clean, complete and stable.

## 3) INFORMATION DISPLAY (Info)

Press this button to view current settings and information of PXL-605VP, it consists of 25 items. If you press "Info" again before PXL-605VP exit information display, PXL-605VP will continue to display the next item of information.

## 4) SELECT CUT / FADE / BLEND MODE (C/F)

PXL-605VP can realize seamless switching effect (Cut), fading in/out switching effect (Fade) or blend effect between any two signals from different groups as listed below. But if the signals come from the same group, dark screen will appear.

Α	В	С	D
V1, V2, V3,	DVI,	VGA1	EXT
S-Video	HDMI	VGA2	

**Cut** (seamlessly switching): while in this mode, "Cut" will appear in the third line of LCD, the system can seamlessly switch between different signals. It is also the default mode of PXL-605VP after startup. **Fade** (fading in fading out): while in this mode, "Fade=1.0s" will appear in the third line of LCD, the system can realize fading in fading out switching effect between the signals coming from different groups. Users can set the switching time of fading in and fading out as 0.5 seconds, 1.0 second or 1.5 seconds.

**Blend:** The current input signal will be the background. The other signal from different group will be choosed as blend signal. Then the background signal and blend signal will be overlap showed. Then press the button of background or blend signal, the output will be the choosing signal. The whole procedure will be fade in fade out switching effect.

**Notes:** Neither Cut mode nor Fade modes applies to YPbPr signals, that is to say, if you attempt to switch between YPbPr signals and any other signal, dark screen will appear. YPbPr signal cannot be background signal and blend signal.

## 5) PIP / POP (PIP/POP: On/Off, M1, M2, M3, M4)

PIP/POP mode of PXL-605VP allows user to insert a PIP window in current picture, and the size and location of the PIP window can be set freely. The signals to be displayed in PIP window can be either current signal itself or any signals which are not in the same group as that of current picture.





Here we call current picture "background", and call the picture to be overlaid "PIP". The following paragraphs will illustrate the operating procedures of this function:

**Enter PIP display mode:** Press On/Off button, its indicator will illuminate, PXL-605VP will enter PIP display mode, then use Preselect button to select PIP input signals, in the meantime, signals of background and PIP and their locations will appear in LCD (see Figure below):

Background: V1 PAL PIP: VGA 1280X1024 60Hz

**Change PIP:** While in PIP mode, use Preselect button to select proper input signals, the preselected signals will be set as PIP.

**Change the background:** you must first turn off PIP mode. Press buttons to select appropriate input signal as background, then enter PIP mode again, and select a new PIP picture.

**Switch PIP/POP display mode:** PXL-605VP allows for presetting 4 PIP/POP display modes, each mode allows for setting its own background and PIP sizes and locations. While PIP/POP mode is switched on, user can press the mode switching buttons (M1, M2, M3, M4) to select appropriate display modes quickly.

## 6) PART/FULL (Bypass)

Press this button to switch between Part / Full display mode.

This function is only available when the current input signal is PC (VGA 1/ VGA 2/ DVI /HDMI) signal, while other signals can only be displayed in the Full display mode.

Mode	Description
Full	Full screen display. Entire picture is compressed to display in LED screen, the moment the indicator above the button is OFF.
Part	Part screen display. The picture will not be compressed, but partly exported to entire LED screen, the moment the indicator above the button is ON.

**Caution:** when the width and height of current input signals are less than the width or height of LED display (say the Out\_Hori\_width or Out\_Vert\_height), Part mode will not work.





## 7) FREEZE

Press this button, the indicator of this button will illuminate normally, and the current picture will be frozen; press this button again or perform other signal switching operations, the indicator of this button will turn out, the picture will get in motion again.

## 8) MOSAIC

Press this button only when current signals are DVI, the indicator of this button will illuminate, PXL-605VP will enter Mosaic mode. Press this button again, the indicator of this button will turn out, and PXL-605VP will exit Mosaic mode.

**Notes:** PXL-605VP will be unable to enter Mosaic mode in the following events:

- 1. The input signals are other signals than DVI;
- 2. BYPASS function has been switched on;
- 3. The definition of DVI input signals is different from the preset output definition of the processor.

## 9) TEXT

PXL-605VP can add Text, company logo or animation onto current picture, while current picture is normally displayed, press Text button to go to caption adding mode, then select the signal source of caption. The captions can be made by office software such as Powerpoint.

# V. SETUP

# The following settings must be made by relevant qualified technicians. For ordinary users, unless they have received adequate technical training, they shouldn't attempt to make the following settings!

There are 3 categories available for you to set in PXL-605VP. Technicians can set these items as necessary, for details see the table below:

Category	Items	
User parameter setup	Output image setup, text overlay setup Brightness/Color /Definition setup	
	Hot spare setup, Audio configuration factory district setup	
Mosaic setup	Input parameter setup Output parameter setup	
	Sync. Mosaic setup	
PIP/POP setup	Background and PIP output image setup	





#### (I) User parameter setup

Cate	egory	Iter	ns
1	Language	1	Language 语 <i>言</i>
2	Output image setup	2	Out Format
		3	Out Hori Width
		4	Out Hori Start
		5	Out_Vert_Height
		6	Out_Vert_Start
3	text overlay setup	7	Text Mode
		8	Threshold Red
		9	Threshold Green
		10	Threshold Blue
4	Brightness/Color	11	Brightness
	/Definition setup	12	
		13	1
5	Audio configuration	14	5
		15	5
6	Hot spare		Hot spare < V1→V3>
		17	<i>Hot spare</i> < V2→S-Video >
		18	
		19	
		20	Device ID
'7	Factory district Setup	21	ADC Calibration
		22	Bias
		23	
			EXT. model
		25	Device init

## 1) ENTER SETUP OF PXL-605VP

**Enter setup:** While in operation mode (make sure that PIP mode and Mosaic mode have been switched off), press "Setup" button, then press the knob(("Save" key), PXL-605VP will enter No.1 setup item.

**Exit setup:** press "Setup" button while in setup mode, PXL-605VP will directly exit setup.

After PXL-605VP enters setup mode, the knobs and 3 buttons in setup area will respectively have the functions as described in table below:

Name		Functions
	Speed of	The step value in proportion to the
	knob	speed of knob
	Turn it	Decrease value or select previous value
Knob	clockwise	
	Turn it	Increase value or select next value
	anticlockwise	
	Press it	Save the adjustment or selected values
1		Move to previous item
		Move to next item
Setup	Setup Enter or exit setup mode	





After PXL-605VP enters setup mode, the relevant setting information will be displayed in LCD as per the layout shown in the figure below:

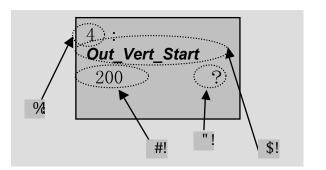


Figure 3

As shown in above figure, LCD consists of five sectors:

Sector	Description
1	The No. of current setting item
2	? : ask you whether to save the adjustment; ! : The adjustment already be saved and takes effect.
3	Newly adjusted value
4	Name of current setting item

## 2) SELECT LANGUAGE

Item 1: "Language 🛛言 "

After entering setting mode, PXL-605VP will enter the first setting item "Language⊠言". PXL-605VP supports Chinese and English display, turn the knob to select either of them, then press the knob to save it and make it valid.

## 3) OUTPUT IMAGE SETUP

PXL-605VP outputs images from VGA and two DVI output ports. There are 10 output formats as listed in the table below. User can enter the No.2 setting item "Out Format" to select one of them.

	Format
1	1024×768_60
2	1024×768_75
3	1280×1024_60
4	1280×1024_75
5	1600×1200_60
6	1920×1080_50
7	1920×1080_60
8	1366×768_60
9	1440×900_60
10	2048×1152_60





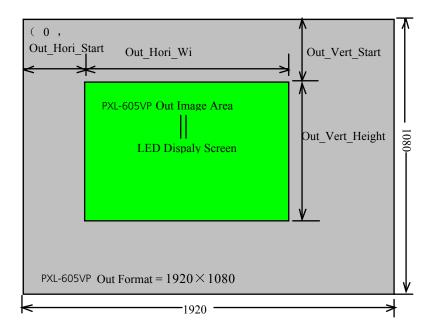
#### Item 2: "Out Format"

In this item, turn the knob to select either of them, then press the knob to save it and make it valid. For example, if you select "1280×1024\_60", it means that the output definition of PXL-605VP has been set as 1280×1024, and vertical refresh rate is 60Hz.

Please select the output definition equal to or greater than the actual definition of LED screen.

#### Items 3~6: "Output image setup"

The actual definition of LED can be any value, so we should set PXL-605VP to make it output an image with the same definitions as that of the LED, so that the LED could display a full image. See figure below:



As above figure shows: the size and location of the images in PXL-605VP output window for the LED display are defined by the following 4 groups of parameters:

Item No.	Parameters
3	Out_Hori_Width
4	Out_Hori_Start
5	Out_Vert_Height
6	Out_Vert_Start

**Notes:** user can change current parameter settings by rotating the knob. The speed at which you rotate the knob decides the step value of the adjustment. The location and size of the output image will be previewed in the white box while you are making the adjustment, then you can press the knob to save and validate the settings you made.





#### 4) TEXT OVERLAY SETUP

Item No.	Setup Item Name
7	Text Mode
8	Threshold Red
9	Threshold Green
10	Threshold Blue

Item 7: "Text Mode"

PXL-605VP allows user to set caption knock-out "< threshold" or ">threshold". If it is less than threshold value, it means that the image of caption signal less than current color threshold value will be added to background, while the part greater than threshold will be automatically filtered. If it is greater than threshold value, it means that the image of caption signal greater than current color threshold value will be added to background.

Item 7~10: " Threshold Red/Green/Blue"

The three options are used to set R, G, B values respectively as a certain value within 0~248. The following figure shows an example of caption adding function. The caption document in this sample is made using Powerpoint. Its parameters are set as below:

No. of setup item	Setup Item Name	parameters
7	Text Mode	<threshold< td=""></threshold<>
8	Threshold Red	248
9	Threshold Green	248
10	Threshold Blue	248







Background

Text

**Text Overlay** 

## 5) BRIGHTNESS / SATURATION / SHARPNESS

PXL-605VP supports customized brightness, color Saturation and definition settings. For details see table below:

Item No.	Description	Definition
11	Brightness	Range: 0~100, default value: 50
12	Saturation	Range: 0~100, default value: 50
13	Sharpness	Option is "Sharp" or "Normal",
		default value: Normal

Caution: (1). In order to ensure output images in complete gray, the output parameters are usually set as default values !

(2). The color parameters only apply to V1、V2、V3、S-Video、YPbPr、SDI and HDMI signals.





## 6) AUDIO CONFIGURATIONS

PXL-605VP supports 3-channel stereo audio switch. Of which, 3 channels are DVI (only available when the input signals are HDMI signals), HDMI and SDI audios,, the other 2 channels are AD1, AD2 external input audio. AD1 and AD2 can be mapped to the any one of all video inputs, and will be switched synchronous to the selection of video input signals.

If DVI (or SDI, HDMI) is configured as external input audio, when audio signal is switched to DVI (or SDI, HDMI), external audio will be chosen as input signals, otherwise the audio signals contained in DVI (or SDI, HDMI) signals will be chosen as input signals.

ltem No.	Description	Definition
14	Audio1 Config	Audio configuration option for AD1 port
15	Audio2 Config	Audio configuration option for AD2 port

**Notes:** AD1, AD2 can't be allocated to the video input signals in the same channel!

## 7) HOT SPARE SETUP

PXL-605VP supports hot spare of input signals, that is to say, once the current input signals are lost, the processor will automatically switch to backup input signals at once, so as to avoid image interruption caused by the fault of signal source.

Item	Description
16	Hot spare      < V1→V3>
17	Hot spare < V2→S-Video >
18	Hot spare < HDMI→DVI>
19	Hot spare <vga1→vga2></vga1→vga2>

As above figure shows, if "Hot spare < V1 V3 >" is turned on, the processor will automatically switch the output image to backup port V3 once signal V1 is lost.

## 8) FACTORY DISTRICT SETUP

The following are factory district setups, users are recommended to make these setups under the guidance of manufacturer's technicians, any improper setting or operation may result in abnormal happening to the processor.

#### Item 20: "Device ID"

This item is used to number PXL-605VP while controlling several processors by RS232. The number scale is from 1 to 255.





#### Item 21: "ADC Calibration"

After inputting a analog signal to the video processor whose white balance has not been calibrated, the picture on the display may appear some bad phenomena, such as color cast, extreme-darkness. PXL-605VP can solve the above problems by automatically calibrating white balance based on the input analog signals (CVBS, S-Video, YPbPr, VGA). Operating procedures:

Switch to the corresponding analog input signal, enter Item No. 20"Device ID." after the processor detects input signals and exports the signals to the display, press "V1" for 5 times, then press "↑" to shift to Item 21 "ADC Calibration", press knob to calibrate white balance.

**Caution:** The white balance of all video processors has been calibrated using standard signals in the factory, please don't set this item unless necessary!

#### Item 22: "Bias"

In order to decrease the noise on gray scale display, the LED display system usually removes the lower gray scale one of all input signals, which will cause the lose of the video information, especially in dark scene ,such as night view.

PXL-605VP can improve problems as follow mentioned by adjusting the "Bias", whose limit ranging from 0 to 100. When losing the signal of dark scene, you can restore the drop-out information to the LED display by increasing the value.

Normally in order to keep the completeness of output signals, the standard value is set as 50!

#### Item 23: "De interlace"

When CVBS/S-Video/HDMI/SDI signals are interlace input formats (e.g.: 1080i) and used as PIP, due to limits of the processor, tremble may take place, it can be dispelled by setting the option "De interlace". Operating procedures:

enter Item No. 20 "Device ID", press "V1" for 5 times, then press " " to shift to Item 23 "De interlace", turn knob to select "ON", and press knob to make it valid.

#### Item 24: "EXT. model"

This item is used to setup after changing the extended model. So that the model can work normally. After entering item No. 20 "Device ID", press "V1" for 5 times, then press " " to shift to Item 24: "EXT. model", turn the knob to choose related option, then press the knob to save the setup. the moment the system will remind you "Please restart.", just follow the instruction.

#### Item 25: "Device Init"

After entering item No. 20 "Device ID", press "V1" for 5 times, then press " " to shift to Item 25: "Device Init", turn knob to select "Yes", then press knob to reset the factory settings, the moment the system will remind you "Please restart.", just follow the instruction.



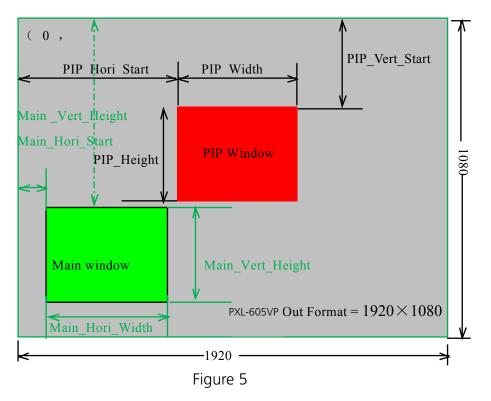




#### (II) PIP/POP setup

Cate	Category		ns
1	background Output	1	Main_Hori_Width
	setup	2	Main_Hori_Start
		3	Main_Vert_Height
		4	Main_Vert_Start
2	PIP Output setup	5	PIP_Hori_Width
		6	PIP_Hori_Start
		7	PIP_Vert_Height
		8	PIP_Vert_Start

PXL-605VP allows for presetting 4 PIP/POP display modes, each mode allows for setting any background and PIP/POP size and location you need.



As above figure shows: the size and location of the images in PXL-605VP background and PIP output window for the LED display are defined by the following 8 groups of parameters:

Item	Description
1	Main_ Hori_Width
2	Main_Hori_Start
3	Main_Vert_Height
4	Main_Vert_Start
5	PIP_Hori_Width
6	PIP_Hori_Start
7	PIP_Vert_Height
8	PIP_Vert_Start





Operating procedures:

Enter PIP/POP setup mode: while PIP/POP mode is turned on (make sure that Mosaic mode have been switched off), press "Setup" button, then press the knob, PXL-605VP will enter the first setup item of PIP/POP setup mode. The information as follows will appear in LCD:

1. Main\_Hori\_width 1216 ? PIP/POP Mode=M1

**Switch current PIP modes:** press mode buttons (i.e.: M1, M2, M3, M4), the processor will directly switch current PIP modes.

**Switch adjustment items:** press " " and " " to switch current adjustment items.

**Change output parameters:** user can change current parameter settings by rotating the knob. The speed at which you rotate the knob decides the step value of the adjustment. The locations of the background and PIP will be previewed respectively in the white rectangle and blue rectangle while you are making the adjustment, then you can press the knob to save and validate the settings you made.

**Exit PIP/POP setup mode:** directly press "Setup" button while in PIP/POP setup mode, PXL-605VP will exit directly.

Cate	Category		Items		
	Input image setup	1	Out_Hori_Width		
		2	Out_ Hori _Start		
		3	Out_Vert_Height		
		4	Out_Vert_Start		
		5	In_Hori_Width		
		6	In_ Hori _Start		
		7	In_ Vert_Height		
		8	In_Vert_Start		
		9	Mosaic Mode		

#### (III) Mosaic setup

The maximum output definition of PXL-605VP is 2048×1152 or 1600×1200, to drive so high definition, LED display requires two transmission cards in cascade, so PXL-605VP provides two locations to hold two built-in transmission cards; if the actual definition of LED display exceeds the maximum output definition of PXL-605VP, you may divide the whole LED into pieces of smaller LED screen, then put them together in Mosaic manner by connecting multiple sets of PXL-605VP in parallel, so as to integrate the smaller pieces of LED into a large LED display.

With frame synchronization technology, PXL-605VP solves the problems of misplacement and delay of output image existing in ultra-large LED mosaic, able to provide real-time, clear and fluent displaying effects.

PXL-605VP supports multi-machine mosaic in parallel, in this way, smaller pieces of LEDs can be integrated into a large display. For example, if the output definition of PXL-605VP is set as 1920×1080,







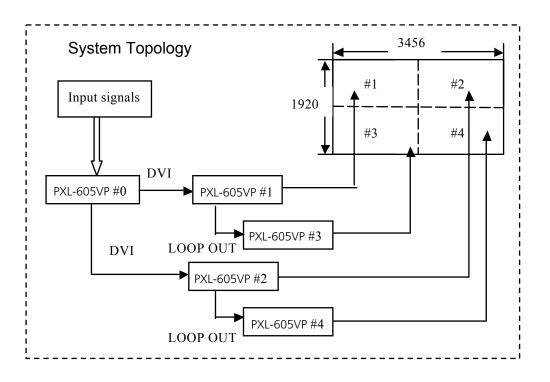
and we put 2 sets of PXL-605VP together horizontally in parallel, it will be able to connect any LED display of up to 3840×1080 pixels.

Below is a 2×2 mosaic example using 4 sets of PXL-605VP, telling us how to use multi-machine cascade of PXL-605VP and what we should pay attention to.

The definition of each LED 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 is driven by a set of PXL-605VP. With total 4 sets of PXL-605VP, the large display of 3456×1920 pixels is able to display a full picture.

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

Below is the system topological diagram:



As above figure shows, all input signals are connected to and switched by #0 PXL-605VP, the DVI signals exported by this machine are output via DVI loop of each mosaic processor to 4 sets of PXL-605VP forcutting or enlarging, the image that they output will be finally displayed as a whole picture in 4 pieces of LEDs.

To use multiple sets of PXL-605VP in parallel, we should set the parameters of input image for each set of PXL-605VP. The table below lists all the items to be adjusted.





Item	Description
1	Out_Hori_Width
2	Out_Hori_Start
3	Out_Vert_Height
4	Out_Vert_Start
5	In_Hori_Width
6	In_Hori _Start
7	In_ Vert_Height
8	In_Vert_Start
9	Mosaic Mode

**Caution:** while in Mosaic mode, in order to keep the consistency of the image, each processor must be set to be identical in the parameters of brightness/color/gray/definition.

**Enter setup:** While in operation mode (mosaic mode is turned on), press "Setup" button, then press OK button, PXL-605VP will enter mosaic setup item.

**Exit setup:** press "Setup" button while in setup mode, PXL-605VP will directly exit setup.

The setup of 5 PCS PXL-605VP is as follow::

Set	up items	parameters of processor				
		#0	#1	#2	#3	#4
1	Out_Hori_Width	1920 1728				
3	Out_ Vert_Height	1080 960				
	Out Format	1920×1080				
5	In_Hori_Width	1920	960	960	960	960
6	In_ Hori _Start	0	0	960	0	960
7	In_ Vert_Height	1080	540	960	540	540
8	In_ Vert_Start	0	0	0	540	540
9	Mosaic Mode	Not Sync	nc Sync			

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 to be set to be the same in output definitions.

**3.** Please reduce the number of DVI rings of the processor to the most extent, so as to prevent signal instability caused by signal attenuation.

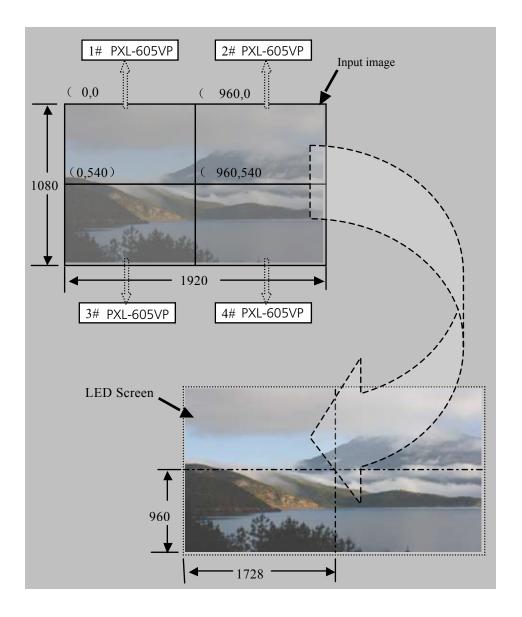
#### Items 1~4: " Output image setup "

Items 3~6 of user setup menu are image output parameters, the parameters adjusted are the data in the same group.









Item 5: "In\_Hori\_Width "

It is used to set the horizontal width of input image from which PXL-605VP will capture. As shown in Figure 5, the width of input image for the 4 sets of PXL-605VP should be set as: In\_Hori\_Width = 960

Item 6: "In\_ Hori \_Start "

It is used to set the horizontal start point of input image from which PXL-605VP will capture. As shown in Figure 5, the the horizontal start point of the four sets of PXL-605VP are set as below respectively:

```
1# PXL-605VP In_ Hori _Start = 0
2# PXL-605VP In_ Hori _Start = 960
```

```
3# PXL-605VP In_ Hori _Start = 0
```

```
4# PXL-605VP In_ Hori _Start = 960
```





#### Item 7: "In\_ Vert\_Height"

It is used to set the vertical height of input image from which PXL-605VP will capture. As shown in Figure 5, the vertical height of the four sets PXL-605VP are set as below respectively: In\_ Vert\_Height = 540

Items 8: " In\_ Vert\_ Start "

It is used to set the vertical start point of input image from which PXL-605VP will capture. As shown in Figure 5, the the vertical start point of the four sets of PXL-605VP are set as below respectively: 1# PXL-605VP In\_ Vert\_ Start = 0 2# PXL-605VP In\_ Vert\_ Start = 0 3# PXL-605VP In\_ Vert\_ Start = 540 4# PXL-605VP In\_ Vert\_ Start = 540

Item 9: " Sync Mosaic"

The system provides the options of "Sync Mosaic" and "Not sync Mosaic". "Sync Mosaic" ensures all output images are completely real-time and synchronous to each other; while "Non-sync Mosaic" has better compatibility, and is usually used for mosaic commissioning.

Inputs				
Nums/Type	3×Composite			
	1×S-Video			
	1×YPbPr			
	2×VGA (RGBHV)			
	1×HDMI (1.3a with HD	OCP )		
	1×DVI(HDMI)			
	1×EXT. (Extended)			
Video system	PAL/NTSC			
Composite Video	1V (p p) / 75Ω			
Scope/Impedance				
S-VIDEO	Y: 1.0V (p p) / 75Ω, C: 0.35V (p p) / 75Ω			
Scope/Impedance				
VGA Format	PC (VESA)	≤2048x1152 @60Hz		
VGA Scope/Impedance	R G B = 0.7 V (p_p	) / 75Ω		
DVI Format	SD/HD (CEA-861) <1920x1080P @60Hz			
	PC (VESA) ≤2048x1152 @60Hz			
HDMI 1.3 Format	SD/HD (CEA-861) <1920x1080P @60Hz			
(HDCP)	PC (VESA)	≤2048x1152 @60Hz		
YPbPr Format	SD/HD (CEA-861)	≤1920x1080P @60Hz		

## **VI. SPECIFICATIONS**



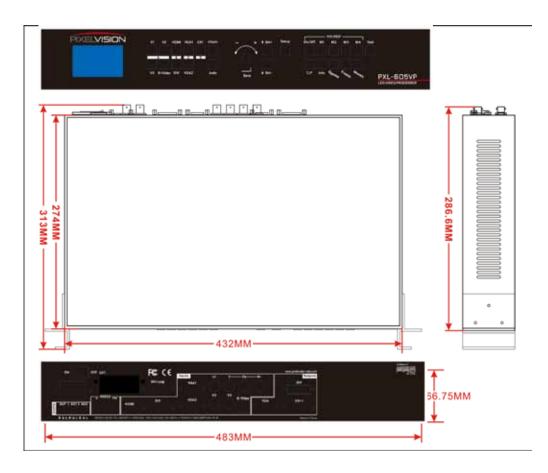


$\begin{array}{llllllllllllllllllllllllllllllllllll$
$\begin{array}{c c c c c c c c c c c c c c c c c c c $
SDI formatSDI-SMPTE 259M-C576i @50Hz 480i @60HzHDSDI 3GSDI formatHDSDI-SMPTE 292M SMPTE 274M/296M SMPTE 424M/425M<1080P @50Hz/60Hz
HDSDI 3GSDI formatHDSDI-SMPTE 292M SMPTE 274M/296M SMPTE 424M/425M≤1080P @50Hz/60HzAUDIO Scope/Impedance2.0Vp-p/10KΩInput ConnectorsVGA: 15pin D_Sub(Female)
HDSDI 3GSDI formatHDSDI-SMPTE 292M SMPTE 274M/296M SMPTE 424M/425M≤1080P @50Hz/60HzAUDIO Scope/Impedance2.0Vp-p/10KΩInput ConnectorsVGA: 15pin D_Sub(Female)
3GSDI formatSMPTE 274M/296M SMPTE 424M/425M≤1080P @50Hz/60HzAUDIO Scope/Impedance2.0Vp-p/10KΩInput ConnectorsVGA: 15pin D_Sub(Female)
AUDIO     2.0Vp-p/10KΩ       Scope/Impedance     VGA: 15pin D_Sub(Female)
Scope/ImpedanceInput ConnectorsVGA: 15pin D_Sub(Female)
Input Connectors VGA: 15pin D_Sub(Female)
DVI: 24+1 DVI D
YPbPr: BNC×3
Composite: BNC
S-VIDEO: 4pin mini DIN(Female)
SDI/ HDSDI : BNC
Outputs
Nums/Type 1×VGA (RGBHV)
2×DVI
VGA/DVI Format 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 Scope/Impedance R, G, B = $0.7 V (p_p) / 75\Omega$
Output Connectors VGA OUT: 15pin D_Sub(Female)
DVI OUT1: 24+5 DVI_I
DVI OUT2: 24+1 DVI_D
Others
Control Panel Button,RS232
Power 100-240VAC 35W 50/60Hz
Operating Temp 5-40 ℃
Humidity 15-85%
Dimensions 145 mm (height) $\times$ 370mm (width) $\times$ 535mr
(Package) (length)
Weight (G.W.) 5.0 Kg
Weight (N.W.) 3.2Kg

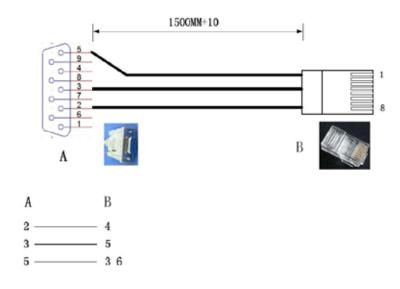




#### Dimensions:



SPEC. of RS232 cable:





## VII. VIEW RGB PXL-605VP Control Software User's Manual

ViewRGB PXL-605VP Control Software is used to control LED HD Video Processor. With this software, we can:

-Select input signal source in Cut or Fade mode.

- -Realize 4 custom double-picture display and Text Overlay functions
- -Enable and disable Bypass, Freeze and Mosaic functions
- -Configure mosaic parameters of PXL-605VP
- -Realize Timer Control function, switch input signal source under timer plan
- -Realize multi-machine cascade fast mosaic function

## (I). Control modes

PXL-605VP LED HD Video Processor can receive operating commands from ViewRGB PXL-605VP Control Software to switch input signal source or change the brightness of output images. The PXL-605VP Control Software controls PXL-605VP LED HD Video Processor via RS232 COM serial port of PC. User can operate PXL-605VP manually using the RS232 serial port software supplied by the manufacturer, or create timer control plans, then the serial port software will automatically control PXL-605VP under these plans.

To do so, first connect COM port of PC to RS232 port of PXL-605VP, then run the control program ViewRGB PXL-605VP Control Software.exe.

#### (II). Instructions of software menu

#### 1) MAIN MENU

Double click the software "PXL-605VP Control Software.exe", the main menu of the software as below will appear:

PXL-605VP	L.			23
Connect Auto	Function	PIP_Mode	Timer Day	
Rs232_Com_Port: COM3  AutoConnect  StartTimer Device_ID	PIP/POP	M1	🔽 Week	
● 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6 1 ▼ Connect DisConnect	TEXT	M2	Month	
SourceABCD	BYPASS	M3	₩ A11	
V1 V2 V3 S-VEDIO DVI HDMI VGA1 VGA2 EXT. YPbPr	FREEZE	₩4	Start	>>>
EXT. O NULL O SDI O VGA O DVI O VEDIO	MOSAIC	-сн/ем	Stop	
Cut/Fade C Cut C Fade=0.55 C Fade=1.05 C Fade=1.55	VGA-AUTO	English	Program	
Info		FastMS Se	etUp Exit	





As shown in above figure, the main menu consists of the following parts:

- RS232 COM port setup
- Select signal source
- Switching mode setup
- Information field
- Timer control setup
- Select function modes
- Select PIP modes
- Select language (Chinese/English)
- Configure output parameters (screen setup)
- Multi-machine cascade mosaic setup (Fast Mosaic)

#### 1) Select language (Chinese/English)

The software supports two languages, i.e.: Chinese and English. Here user can select a desired language.

_C)	{/EN	-
0	中文	
c	English	

#### 2) COM port setup

Connect Rs232_Com_Port: COM4	•	Auto AutoConnect 🔽 StartTimer
Device_ID • 1 O 2 O 3 O 4	C 5	C 6 1 Connect DisConnect

Select a proper COM port in the field RS232\_Com\_Port, and select a proper device ID. You can view the No. of the COM in the "Device Manager" of control PC as shown below:



The device ID you selected (from user setup item 21 "Device ID") must be identical to the device ID of PXL-605VP to be controlled.

Click the button "Connect", the following message will appear:







After the device is successfully connected, the function keys in the main menu of the software will be activated, and the following message will appear in the information field of main menu

```
Info Communications equipment normal
```

**Timer Start Setup:** to set whether the machine automatically connects serial port or starts timer control or not when it is started next time.

-Auto	
	✓ StartTimer

#### 3) Signal status and signal switching

-Source	- A	• B	C	- D
V1 V2	V3 S-VEDIO	DVI HDMI	VGA1 VGA2	EXT. YPbPr
-EXT. © NULL	C SDI	C VGA	C DVI	C VEDIO

The buttons of this 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.

Click the signal button to change the input source of PXL-605VP. The software can display the information of current extended modules.

#### 4) Switching mode setup



This function is used to setup signal switching modes. The system provides 4 switching modes, i.e.: Cut, Fade in fade out 0.5s, Fade in fade out 1.0s, Fade in fade out 1.5s.

#### 5) Select function modes

Function	_PIP_Mode
PIP/POP	M1
TEXT	M2
BYPASS	M3
FREEZE	M4
MOSAIC	CH/EN 〇 中文
VGA-AUTO	← English





This menu provides the following options: PIP, TEXT (Text Overlay), BYPASS, FREEZE, MOSAIC, VGA-AUTO (VGA automatic adjustment).

**PIP/POP modes:** while in one picture display mode, clic • PIP , the blue indicators before the button and corresponding mode buttons will blink, select PIP as input signal source in the field "Select signal source". If the blue indicator before the button illuminates normally, the picture will be displayed in PIP mode. User can select the preset PIP/POP display effects in the field "PIP\_Mode".

While in PIP/POP mode, click • PIP the system will exit PIP/POP mode. **TEXT (Text Overlay):** while in one picture display mode, click • Text •, the blue indicators

before the button and corresponding mode buttons will blink, select TEXT as input signal source in the field "Select signal source". If the blue indicator before the button illuminates normally, the information will be displayed in TEXT overlay mode.

While in TEXT mode, click **Text** again, the system will exit TEXT mode.

**Bypass:** when current input sources are PC signals like VGA/DVI/HDMI, click **BYPASS**, the blue indicators before the button will illuminate normally, and the PC signals will be displayed in part screen, otherwise they will be displayed in full screen.

**Freeze:** while in operation mode, click **FREEZE**, the current output picture in the processor will be frozen. Click the button again or perform any other signal switching operation, the processor will exit Freeze mode.

**VGA-AUTO:** when current input source is VGA signal and the input signal is valid, click the processor will sample the current input signals to make the output pictures full and clear.

Timer Day V Beek Month		-Current Timer Time: Singal:
🔽 Once		Status:
🔽 All		Result:
Start	~	-Next Timer Time:
Stop		Singal:
Program		Status:
Up Exit		Result:

#### 6) Timer control setup

The Timer of the Control Software can switch the input signal source of PXL-605VP as per the preset timer plan. The system provides four cycle timer modes, i.e.: Day, Week, Month, Once. Select a preset timer plan, then click "Start", the Timer you selected will start to work immediately. To stop Timer control, click "Stop".

Click "Program" to enter timer setup menu, where you can view the timer plan you already set, or add, modify, delete timer plans. For details, please refer to the Chapter "Instructions of Timer Setup Menu" Once the timer is started, PXL-605VP Control Software shouldn't be closed, otherwise the timer will not work.





#### 7) Information

Info Invalid Operate InCorrect Source

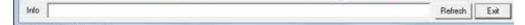
If an operation fails, the reason for which current operation fails will appear in the information field.

## 2) OUTPUT PARAMETERS CONFIGURATION (SCREEN SETUP) MENU

Click setUp , in main menu, the system will enter output parameters configuration menu as shown below:

Thveshold(Red/Green/Blae: 0°255 Red Green Blae 0 + 4 + 8	Contrast	0ulput_Format 10_0ur10800@60H: - Audio_Set AD1 V1 - AD2 V2 - Save	MosaicMode (* No Sync Mosaic * Sync Mosaic Sharpness (* Normal * Sharp	Hot_Spare ▼ V1 >> V3 Γ V2 >> S-VEDIO Γ HDMI >> DVI Γ VGA1 >> VGA2 Save]
С M1 Мал_1 С M2 Мал_1 С M3	Hori_Start 480 PIP_ Vert_Height 540 PIP_	Hori_Width 960 Hori_Start 480 Vert_Height 540 Vert_Start 540 Save	(0,0)	11920.1090
Input_Size_Position (0.0) In_Hoi_Widtk (960) In_Hoi_Start (0) In_Hoi_Start (0) In_MedSizet (0) Save	(1320.1080)	Out_Hoi_Start 0 Out_Vert_Height 1 Out_Vert_Start 1	1060	(1920,108
PIP_Hoi_Width+PIP_Hoi_Start Co Dut_Hoi_Width+Dut_Hoi_Start Co	1920 Main_Vert_Height+Main_ 1920 PIP_Vert_Height+PIP_Ve 1920 Out_Vert_Height+Out_Ve 1920 In_Vert_Height+In_Vert_S	Vert_Start <=1080 No #_Start <=1080 Sy #_Start <=1080 Bp	rved lr	1P_Aces put_Area lutput_Area

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.



The current output resolution of the processor is displayed in software interface, but it can't be set by the software.

In addition, among all parameters appearing in the menu, those in walhet background color are the parameters not yet entered or saved; while those in grey background color are the parameters already saved.





See the figure on the right hand:



Screen output parameters configuration include the following items:

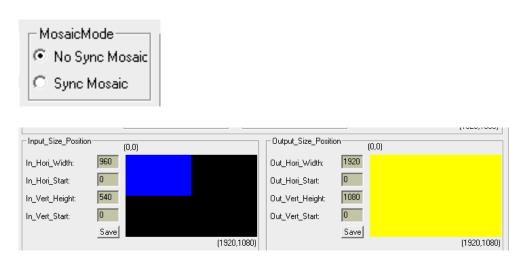
#### 1) Image input/output parameters configuration and mosaic mode setup.

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.

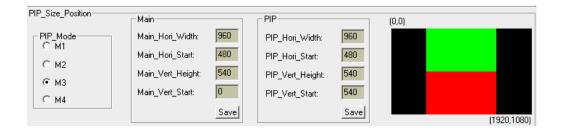
**Caution:** input image parameters shall not be configured unless the following conditions are met:

- 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) POP/PIP display setup (location and size of PIP windows)

This menu is used to set the four PIP/POP display modes of PXL-605VP. 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.

⊂ Set — Text —		
● >Thresh	nold O	<threshold< td=""></threshold<>
- Threshold(F	led/Green/Blue	e: 0~255)—
Red	Green	Blue
8 ÷	4 -	8 ÷
		Save

#### 4) Brightness, color, contrast, sharpness setup

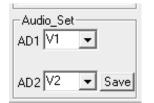
This option is used to set brightness, color, contrast, sharpness of output images, enter the desired parameters, then click "Save" button. To set sharpness, directly click "Normal" or "Sharp", the parameters will be saved.

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

Brightness	Cutput_Format	MosaicMode
50 (0~100) Save	1920x1080@60H: 🚽	No Sync Mosaic
Saturation	Audio_Set	C Sync Mosaic
50 (0~100) Save	AD1 V1 💌	Sharpness
- Contrast		• Normal
50 (0~100) Save	AD2 V2 👻 Save	C Sharp

#### 5) Audio setup

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.



#### 6) 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 >> V3
□ V2 >> S-VEDIO
□ HDMI >> DVI
🔲 VGA1 >> VGA2
Save







#### **3) TIMER SETUP MENU**

Click

**Program** in main menu, the system will enter Timer setup menu as shown below:

gram DavPlan w	VeekPlan   MonthPlan   Or	
Name		Singal
Time0	16:34: 3	V1
Time1	16:55:32	VGA2
Time2	11: 0:49	V1
Time3	11:43:9	V1
Time4	11:48:46	V1
•		
Add	Modify	Delete
		Exit

As shown in above figure, there are two types of plans:

- Cycle Plan
- Once Plan

Cycle Plan is sub-divided into three types:

- Day Plan
- Week Plan
- Month Plan

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 Item	×
Add a plan item?	9:47:30 • OK
Day of week 5Fri  Day of month 09	Source Select V1 C V2 C V3 C S-VEDIO C DVI C HDM1 C VGA1 C VGA2 C EXT C YPbPr

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

## 4) FAST MOSAIC MENU

PXL-605VP can drive ultra high-definition LED display through multi-machine cascade mosaic. User can complete input/output parameters configurations of each ser of 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 PXL-605VP, click **FastMS**, the menu as below will pop up.

Fast Mosaic							23
Specification							
⊙ 1X1 ⊂ 1	X2 🔿 1X3	C 2X1	O 2X2 (	C 2X3		Column	_
C 3X1 C 3	x2 O 3X3	C 4X1	C 4X2	0 4X3 🛛	×	Ok	
Effects show (Ple	ase enter each so	reen width and	height values:	: Width<=102	24,Height	<=768)	
Width 102	Width 1024						
Connect	0						
● 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6 ○ 7 ○ 8 ○ 9 1 ▼ Connect							
Resolution ——	Mosaic						
Resolution C No Sync Mosaic Auto Calculate Auto Calculate							
C	alculated Adj	usted		Calcula	ated Ac	ljusted	
InputWidth	0 + 0	÷	OutputW	idth	+ 0	÷	
InputHeight	0 + 0	÷	OutputHe	eight 0	+ 0	÷	
HorizontalStart	0 + 0	÷	Horizonta	alStart 0	+ 0	÷	
VerticalStart	0 + 0	÷ Set	VerticalSt	tart	+ 0	÷ Se	et
					Detect	Ex	it





**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).

#### **Steps of Mosaic setup:**

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) Connect processors using software.

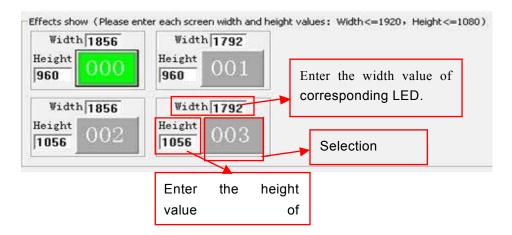
Select the device ID of the first processor to be adjusted (from user setup item 21 "Device ID"), click "Connect", the processor will automatically connect the processor, the software will read and display the current parameters (e.g.: output resolution) of the processor.



#### 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. 3) Enter actual parameters of each LED

After selecting proper mosaic mode, the field "Effects shoe" will display the actual layout of each LED in models, enter the width and height of each LED display in turn as shown in Figure below:



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), 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 PXL-605VP 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.





-Mosaic						
Resolution		MosaicMode				
1920×1080@60Hz 🗨		• No Sync Mosaic C Sync Mosaic		Auto Calculate		
_ Input (WindowID: 000)						
	Calculated	Adjusted			Calculated	Adjusted
InputWidth	976 -	- <mark>0</mark> -		OutputWidth	1856 +	
InputHeight	514 -			OutputHeight	960 +	<u>□</u> ÷
HorizontalStart	0			HorizontalStart	0 +	0 -
VerticalStart	0 -	• <b>•</b>	Set	VerticalStart	+	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.

## **VIII. NOTES TO MODEL**

**PXL-605VPD:** with VGA/DVI/HDMI extended model **PXL-605VPS:** with SDI/HD-SDI extended model **PXL-605VP:** with VIDEO extended model

## **IX. COPYRIGHT INFO**

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