VENUS X1PRO-E Quick Start

- 4K input support in DP, HDMI and Dual Link DVI

- Support 8K x 1K, 4K x 2K Seamless Splicing

- EDID management

- Modular 2K input: Three slots for 2K input options

- 2K-2K and/or 4K-2K matrix with cross conversion of any input signal to 2K DVI output

- Support remotely configured and control by XPOSE and XPOSE mobile.

- Support backup/Loop function for each output port.

CONTENT

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Product Introduction

VENUS X1PRO-E enables 4K switching, scaling and signal distribution to 2k display devices. Supports up to 4K input signals with Dual Link DVI, HDMI and Display Port. With independent scaling for each output, support Matrix for input and output, up to 8K1K or 4K2K pixel-to- pixel output.

VENUS X1PRO-E with features like LOGO capture and standard test pattern built in, EDID management. Seamless switching between the inputs. Support remotely configured and control by XPOSE and XPOSE mobile. Modular design is based on replaceable input optional modules structure, provide 3 slots for input option modules, you can reach more possibility and application range.

System Connection

RGBlink offers solutions to demanding technical problems. Any application questions, or required further information, please contact with our customer Support Engineers.

VENUS X1PRO-E System Connection Diagram

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Packing Configuration

AC Power Cord	DVI Cable	DB9 to RJ11 Cable	Screw Driver

Antistatic Bag

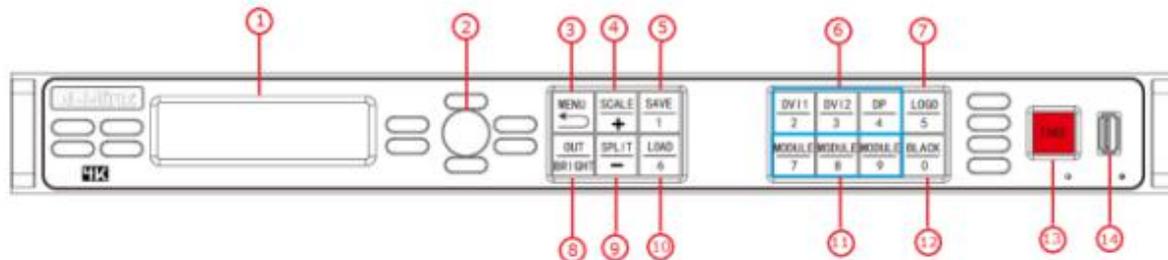**Note:**

AC Power Cable supplied as standard according to destination market.

USB is contained on the Warranty/Registration Card. Please keep.

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Hardware Orientation

Front Panel

Display

1	**OLED Display:** Displays current status of the product, and for feature selections provides interactive choices in conjunction with buttons on the front panel.

Multi-Function Buttons

2	**Rotary Button:** Confirm and adjust OLED menu.

Illuminated Buttons

3	**MENU Button** Menu and back button. Push the button twice to enter the effect switch function menu. Push the button for 3 seconds will lock the front panel, and push the button for 5 seconds to unlock. Push the **MENU** and **TAKE** button for 3 seconds will switch the language.
4	**SCALE Button** This button used for size and position adjusting. It reused as the stop and play button for the USB signal.
5	**SAVE Button** Save all current settings with the VENUS X1PRO E to 1 of the 36 available slots. Additionally, this button is used for direct numeric entry for numbers 1.
6	**Dedicated Signal Buttons** For each of inputs on the back panel a dedicated backlit buttons are provided. When lit, the signal is selected for use, when red light is flashing, signal is in preview or the signal is not available. Additionally, each button is numbered and can be used as direct number entry when values such as resolution and size.
7	**LOGO Button**

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	LOGO load LOGO Capture shortcut button.
8	**OUT BRIGHT** Shortcut button for output Setting, output Brightness Setting, and 4K Input Signal switch.
9	**SPLIT Button** Split function button. It reused as the next track button for USB signal.
10	**LOAD Button** Restores/Loads all current settings with the VENUS X1PRO-E from 1 of the 24 available slots. Additionally, this button is used for direct numeric entry for numbers 6.
11	**MODULE Buttons** If optional input module is fitted, then these three operate as per Dedicated Signal Buttons above. Additionally, these buttons are used for direct numeric entry for numbers 7/8/9.
12	**BLACK Button** Black button. Additionally, this button is used for direct numeric entry for numbers 0.
13	**TAKE Button** To preview the selected signal and take it to output.
14	**USB Interface** Use for system upgrade.

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Back Panel
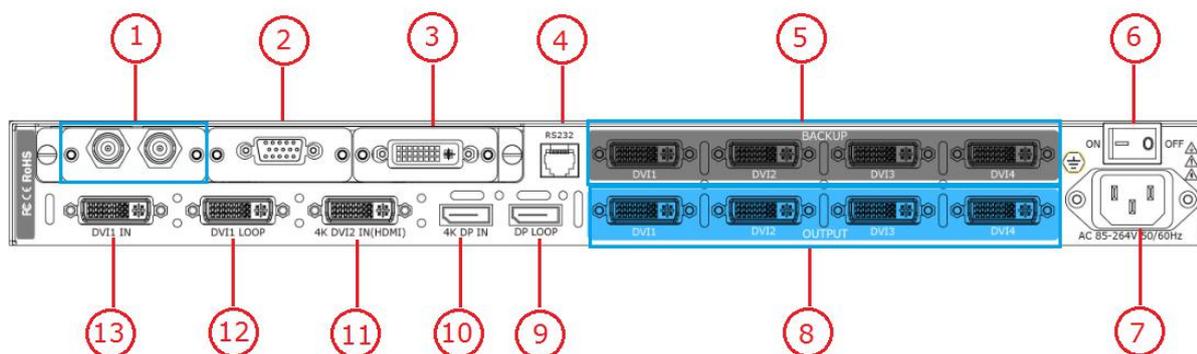
Input Connectors

13	DVI Input DVI-I Port
11	4K DVI2 Input (Compatible HDMI)
10	4K DP Input

Input Option Slots

1.2.3	Input Option Slots, Support SDI, VGA, DVI, HDMI, DP, CVBS, USB input.

Output Connectors

5	DVI1-4 output Backup
8	DVI1-4 output
9	DP Loop Output
12	DVI Loop Out

Control Connectors

4	RS232

Power Connection

6	Power Switch
7	Main power input AC 85-264V Max 65W, IEC-3

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Using Your Product

Menu Structure

The menu structure is shown in the figure below:

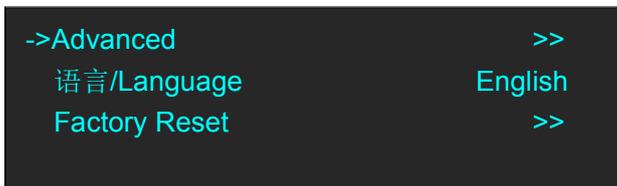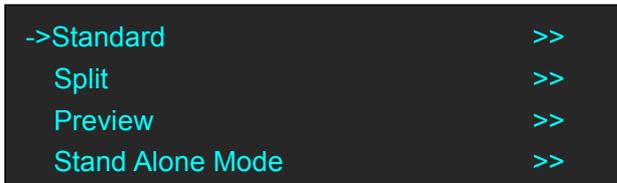| Standard	Split	Preview	Stand Alone Mode	Advanced	语言/Language	Factory Reset	Scale
Output Resolution	Output Resolution	Output Resolution	Output DVI1	Output Brightness	English	Factory Reset	Image Select
Image Select	Split Mode	Presentation Mode	Output DVI2	Hot Backup	简体中文		Input Source
	Multi-Split	Switching Time	Output DVI3	Input Adjust			Width
			Output DVI4	Output Adjust			Height
				LOGO Setting			H Pos
				Test Pattern			V Pos
				Save Setting			Reset Parameters
				System Setting			

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Standard Mode

In standard mode, four output channels output the same signal and resolution. Each input signal can be zoomed and scaled separately.

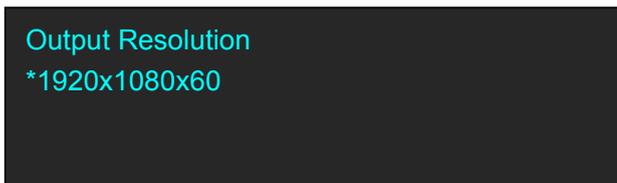This is the default mode following a reset.

Output Resolution Setting

1. Push the [MENU] button, enter to menu items, and turn the rotary knob, select <Standard>.

```
->Standard                        >>
  Split                           >>
  Preview                         >>
  Stand Alone Mode                >>
```

```
->Advanced                        >>
  语言/Language              English
  Factory Reset                   >>
```

2. Turn the rotary knob to select <Output Resolution>, can be selected as <Standard> or <customs>.

```
->Standard                         >>
  Custom                           >>
```

3. Default <STANDARD> option, push the knob to confirm. Turn the rotary knob, and select the output format according to actual needs.

```
Output Resolution
*1920x1080x60
```

4. Turn the rotary knob, and select <Customs>, push the knob to confirm, and enter to the menu items as follows:

```
  Standard                         >>
->Custom                           >>
```

5. Turn the rotary knob on each digital position, and change the value of the digital by the digital buttons on the front panel. For example, input 1536 as following:

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```
    Customs:
*1536×
```

6. After the digital, push the knob will add *, means before the * is the horizontal size. Same operation for vertical size, for example input1536 as following:

```
    Customs:
*1536×1536@
```

7. After the digital, push the knob will add @, means before the @ is the vertical size, and after the @ is the refresh rate. Only digital 50 or digital 60 supports for the refresh rate. Use the digital buttons to finish the settings. For example, input refresh rate 60:

```
    Customs:
->1536×1536@60
```

8. After input all the values, push the knob to enable VENUS X1PRO -E to output this resolution. VENUS X1PRO-E will take 1~2 seconds to enable this output resolution.

Image Select

1. Push the [MENU] button, default to <Standard> menu,

```
->Standard                          >>
  Customs                           >>
```

2. Push the knob to confirm, turn the rotary knob and select the <Image Select>, push the knob to confirm.

```
  Output Resolution                 >>
->Image Select                      >>
```

3. Turn the rotary knob to set the follows parameters as needed.

```
->Image Select                  Mode 1
  Image 1 Source                  DVI1
  Width                           1300
  Height                          1080
```

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->H Pos	0
V Pos	0
EDID	>>
Reset Parameters	

4. VENUS X1PRO-E can be setting the Image 1-4 parameter directly.

Single Image Switching

Default DP for the current input source, if need switch other signal, for example, DVI, push the DVI button.

DP button light will be off after pushing the DVI button, and DVI button light will be on if the DVI signal is effective and stable. If the DVI signal is invalid or no input, DVI button light will flash.

Same with above, switch the signals among DVI1, DVI2, DP and 3 option signals.

VENUS X1PRO E can be setting the Image 1-4 parameter directly.

Two Images Setting

VENUS X1PRO-E can be setting the Image 1-4 source parameters directly. X1PRO-E has 4 output channels, each channel allows 4 layers, all 4 layers can be scaled, re-positioned. Here's an example of how to set 2 layers:

1. Press <Menu>, default into <Standard>, turn the rotary knob to <Image Select>, press the rotary knob to confirm, and select <Mode 2>, details refer to above "Image select".

->Image Select	Mode 2
Image 1 Source	DVI1
Width	1300
Height	1080

H Pos	0
V Pos	0
EDID	>>
Reset Parameters	

2.The screen would show the follows a symmetrical image.

Images Parameters Setting

Setting the <Image 1Source> to <Image 4 Source> parameters as actual needs.

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Image Select: Select range between Mode1~Mode13

Image 1 -4 Source: Can select DV1, DV2, DP and 3 optional input signal by rotary knob or press signal on front panel directly.

Width: Set width value

Height: Set height size value

H Pos: Set image horizontal position value

V Pos: Set image vertical position value

EDID: Setting DVI1, DVI2, DP Port to follow other input signal resolution.

Reset Parameters: To confirm above parameters setting
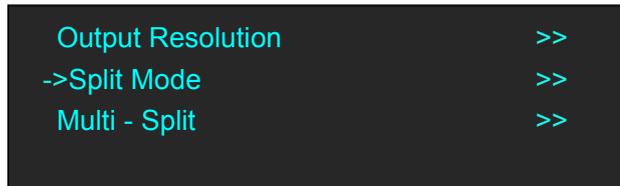
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Split Mode

There are 12 split modes:

H1/2, V1/2, H1/4, V1/4, CROSS, H 2 In/2Out, V 2 In/2Out, H 2 In/3Out, H 2 In/4Out, 3D Normal, 3D Split H 1/2, 3D Split V 1/2.
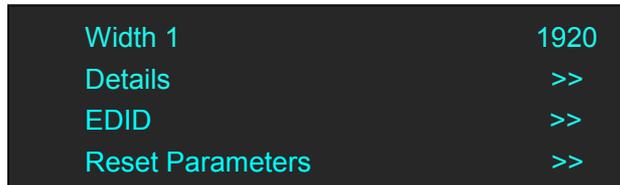
Follows will provide samples for 3 modes setting: H 1/2, CROSS, H 2 In/3Out.

H 1/2 Split
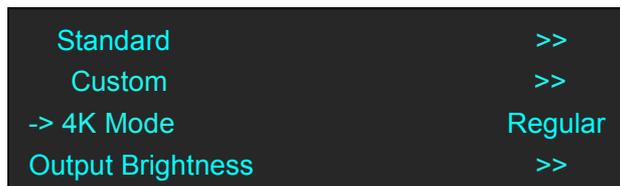
1. Push the <Menu> button, turn the rotary knob to select <Split>,press the knob; Or push the [SPLIT] button, both ways will enter to the split mode as follows.
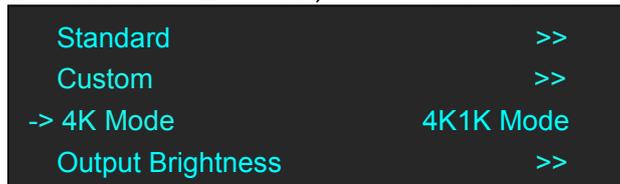
Output Resolution	>>
->Split Mode	>>
Multi - Split	>>

2. Select <Split Mode>, press the knob, shows the follows, select H1/2.

->Split Mode	H 1/2
PIP Config	>>
H Total	>>
V Total	>>

Width 1	1920
Details	>>
EDID	>>
Reset Parameters	>>

3. Press the shortcut button ![OUT BRIGHT] on front panel, select <4K Mode>:

Standard	>>
Custom	>>
-> 4K Mode	Regular
Output Brightness	>>

4. Press the knob, select "4K1K Mode" or "4K2K Mode", shows the follows:

Standard	>>
Custom	>>
-> 4K Mode	4K1K Mode
Output Brightness	>>

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Standard	>>
Custom	>>
-> 4K Mode	4K2K Mode
Output Brightness	>>

5. Return to <Split Mode>, press the knob, shows the follows, select <H 1/2>.

->Split Mode	H 1/2
PIP Config	>>
H Total	>>
V Total	>>

Width 1	1920
Details	>>
EDID	>>
Reset Parameters	>>

Set H total, V total, Width1 of screen according to actual needs.

For example, set H total as 3840, V total as 1080, Height 1 is 1080, same with V total.

Set Width 1 as 1920 and Width 2 will be 1920, (H total <3840> - Width 1 <1920> = Width 2 <1920>).

As shown in the figure below:
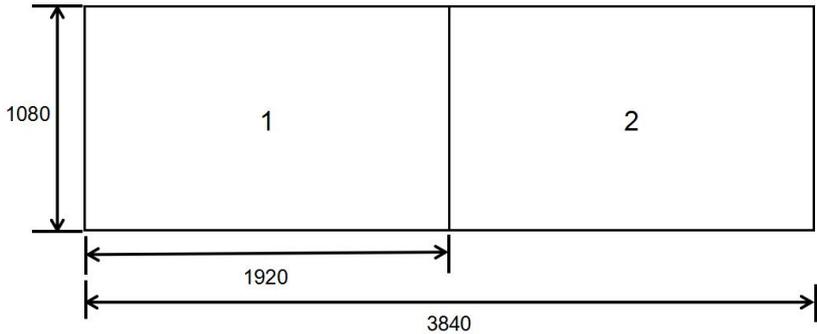
CROSS

Turn the rotary knob, and select <CROSS>, push the knob to confirm, and enter to the menu items as follows:

->Split Mode	CROSS
PIP Config	>>
H Total	3840
V Total	2160

Width 1	1920
Height 1	1080
Details	>>
EDID	>>

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Set H total, V total, width and height of each screen according to actual needs.

For example, set H total as 3840, V total as 2160, Width 1 as 1920 and Height 1 as 1080, then Width 3 will be 1920 (H total <3840> - Width 1 <1920> = Width 3 <1920>).

Height 2 will be 1080 (V total <2160> - Height 1 <1080> = Height 2 <1080>).

As shown in the figure below:
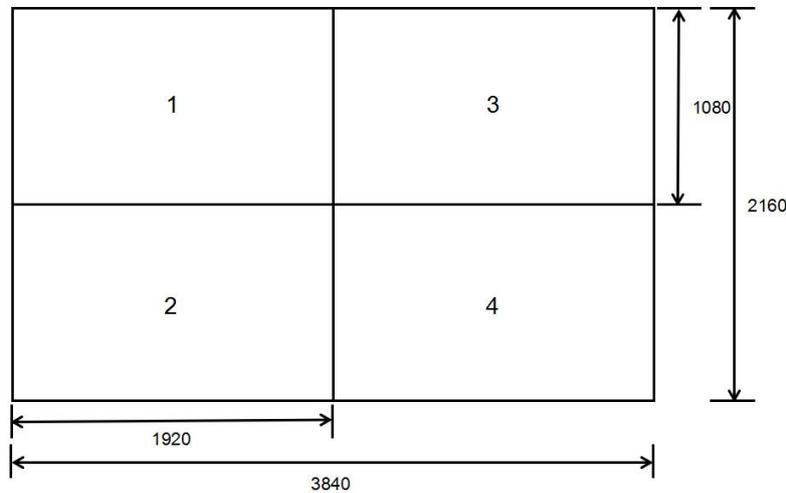
H 2 In/3Out

1. Turn the rotary knob, and select <H 2 In/3 Out>, push the knob to confirm, and enter to the menu items as follows:

->Split Mode	H 2 In/3 Out
Left Source	DVI1
Right Source	DVI2
H Total	5760

->V Total	1080
Width 1	1920
Width 2	1920
Details	>>

->EDID	>>
Reset Parameters	>>

Turn the rotary knob, select <Left Source> and <Right source>, push the knob to confirm.

Set H total, V total, width1 and width2 of each screen according to actual needs.

For example, set H total as 5760, V total as 1080, Width 1 as 1920 and Width2 as 1920, then Width 3 will be 1920 (H total <3840> - Width 1 <1920> -Width 2<1920>= Width 3 <1920>).

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2. Select <Details>, the menu items as follows:

```
->Layer A                    >>
   Layer B                   >>
   Layer C                   >>
   Layer D                   >>
```

```
->Output DVI4 Copy From      >>
```

3. Select <Layer A>, the menu items as follows:

```
->Scale                      >>
   Crop                      >>
   Crop Edge                 >>
```

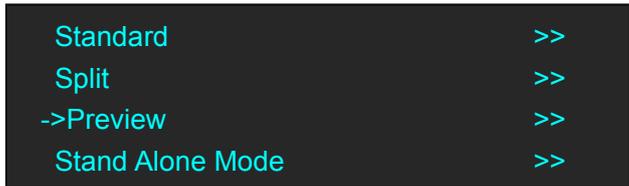4. Push the Knob enter into <Scale>, <Crop>, <Crop Edge> to set parameters separately:

```
   Width                   1920
   Height                  1080
   H Pos                      0
   V Pos                      0
```

```
   Reset Scale
```

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Preview Mode

1. Push the [MENU] button, and enter to menu items, turn the rotary knob, select <Preview>.

```
Standard                        >>
Split                           >>
->Preview                       >>
Stand Alone Mode                >>
```
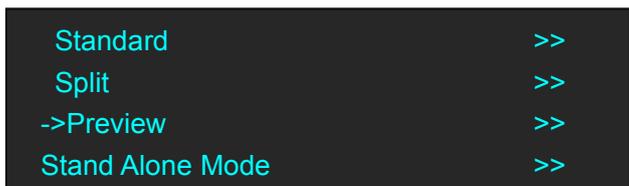
2. Push the knob and enter to preview mode, the mode including three functions: <Output Resolution>, <Presentation Mode>, <Switching Time>. turn the rotary knob, select different function to set parameters.
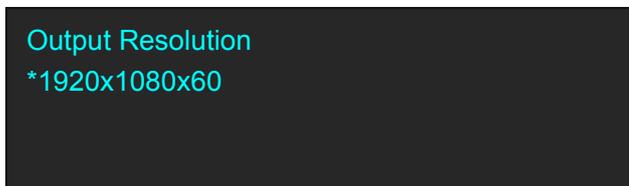
```
->Output Resolution             >>
  Presentation Mode             >>
  Switching Time               0.1s
```
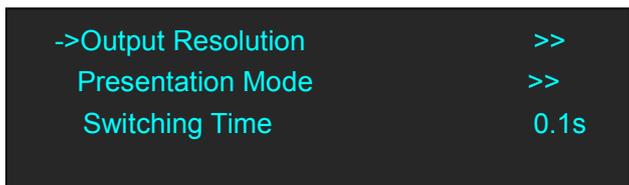
Output Resolution Setting

1. Enter to <Preview> mode, select <Output Resolution>.

```
Standard                        >>
Split                           >>
->Preview                       >>
Stand Alone Mode                >>
```

2. Output Resolution, can be select <Standard> or <customs>.

```
->Standard                      >>
  Custom                        >>
```

3. Default <Standard> option, push the knob to confirm. Turn the rotary knob, and select the output format according to actual needs.
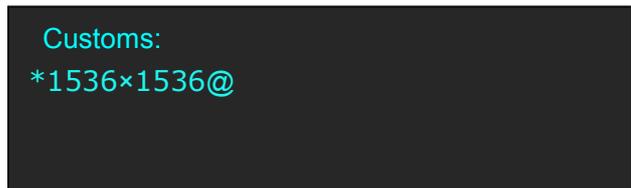
```
Output Resolution
*1920x1080x60
```

4. Turn the knob and select <Custom>, push the knob to confirm, enter to the menu items as follows:

```
Standard                        >>
->Custom                        >>
```
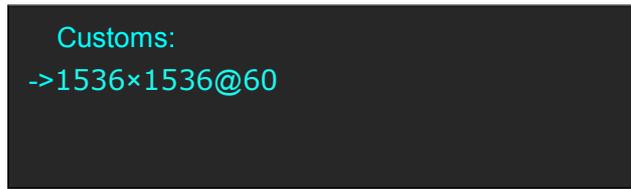
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5. Turn the rotary knob on each digital position, and change the value of the digital by the digital buttons on the front panel. For example, input 1536 as following:

```
Customs:
*1536×
```

6. After the digital, push the knob will add *, means before the * is the horizontal size. Same operation for vertical size, for example input 1536 as following:

```
Customs:
*1536×1536@
```

7. After the digital, push the knob will add @, means before the @ is the vertical size, and after the @ is the refresh rate. Only digital 50 or digital 60 supports for the refresh rate. Use the digital buttons to finish the settings. For example, input refresh rate 60:

```
Customs:
->1536×1536@60
```

8. After input all the values, push the knob to enable VENUS X1PRO E to output this resolution. VENUS X1PRO E will take 1~2 seconds to enable this output resolution.

Presentation Mode Setting

1. Enter to <Preview> mode, select <Presentation Mode>.

```
Output Resolution              >>
->Presentation Mode            >>
  Switching Time             0.1s
```
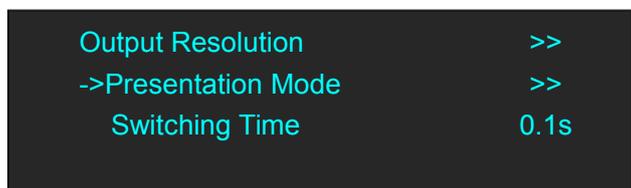
2. Push the knob to confirm, menu items as follows.

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```
     ->Presentation Mode            Normal
        Image 1                     DVI1
        Width                       1300
        Height                      1080


     ->H Pos                          >>
        V Pos                         >>
        EDID                          >>
        Reset Parameters
```

3. Presentation Mode: Including Four modes, <Normal>, <PIP>, <Split H>, <Split V>, select different mode, items menu will show as follows:

Normal Modes

```
     ->Presentation Mode            Normal
        Image 1 Source              DVI1
        Width                       1300
        Height                      1080


     ->H Pos                           0
        V Pos                          0
        EDID                          >>
        Reset Parameters
```

PIP. Set H total, V total, width of each screen according to actual needs. Image source setting to different input sources.

```
     ->Presentation Mode             PIP
        Image 1 Source              DVI1
        Width                       1300
        Height                      1080

     ->H Pos                           0
        V Pos                          0
        Image 2 Source              DVI2
        Width                       1300

     ->Height                       1080
        H Pos                        650
        V Pos                          0
        EDID                          >>
```
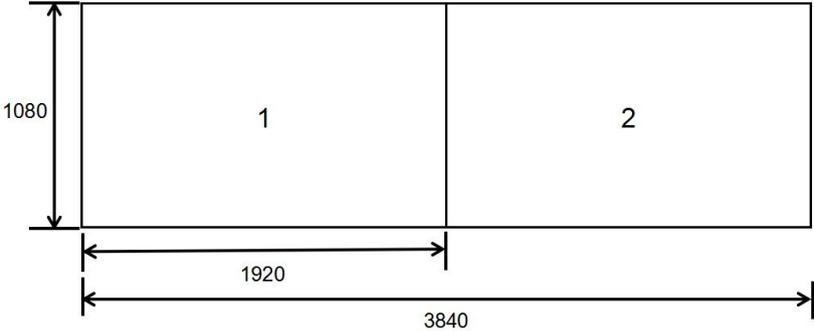
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```
                    Reset Parameters


```

Split H

1. Select <Split H>, press the knob, shows the follows.

```
    ->Presentation Mode            Split H
        H Total                      3840
        V Total                      1080
        Width 1                      1920
```

```
        Details                        >>
        EDID                           >>
        Reset Parameters
```

2. Set H total, V total, width1 of screen according to actual needs.

For example, set H total as 3840, V total as 1080, Height 1 is 1080, same with V total.

Set Width 1 as 1920 and Width 2 will be 1920, (H total <3840> - Width 1 <1920> = Width 2 <1920>).

As shown in the figure below:

Split V

1. Select <Split V>, press the knob, shows the follows.

```
    ->Presentation Mode            Split V
        H Total                      1920
        V Total                      2160
        Height 1                     1080

```

Set H total, V total, Height 1 of screen according to actual need.

For example, set V total as 2160, Height 1 is 1080, same with H total.

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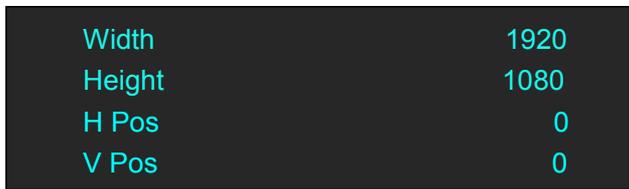Set Height 1 as 1080 and Height 2 will be 1080, (V total <2160> - Height 1 <1080> = Height 2 <1080>).

2. Select <Details>, the menu items as follows:

```
->Layer A                    >>
  Layer B                    >>
  Layer C                    >>
  Layer D                    >>
```
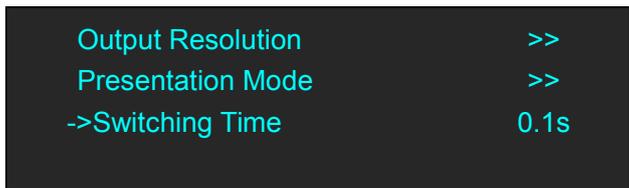
3. Select <Layer A>, the menu items as follows:

```
->Scale                      >>
  Crop                       >>
  Crop Edge                  >>
```

4. Press the knob to enter into <Scale>, <Crop>, <Crop Edge> to set parameters separately:

```
Width                      1920
Height                     1080
H Pos                         0
V Pos                         0
```

```
Reset Scale
```

Switching Time Setting

Enter to <Preview Mode>, select <Switching Time>, the setting arrange within 0.1 to 3 seconds

```
Output Resolution           >>
Presentation Mode           >>
->Switching Time           0.1s
```

Stand Alone Mode

Stand Alone Mode can be set 4 DVI output port separately, each output port can select any input signal, but not support Fade in Fade out when switching, each input signal allow to scale and crop.PIP is unavailable for use.

1. Push the <MENU>, turn the rotary knob to select <Stand Alone Mode>, push the knob to confirm, enter menu as follows:

Standard	>>
Split	>>
Preview	>>
->Stand Alone Mode	>>

⇩

->Output DVI1	>>
Output DVI2	>>
Output DVI3	>>
Output DVI4	>>

2. Each Output DVI can be set the parameter for input signal, scale and crop.

->Input Source	DVI1
Scale	>>
Crop	>>

Input Source: select any source from DVI1, DVI2, DP and any option input signal.

Scale & Crop: set the Width, Height, H Pos, V Pos and Reset Parameters.

->Width	1920
Height	1080
H Pos	0
V Pos	0

Reset Parameters

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Advanced Setting

1. Push the [MENU] button, and enter to menu items, turn the rotary knob, select <Advanced>.

```
->Standard                      >>
  Split                         >>
 Preview                        >>
 Stand Alone Mode               >>
```

```
->Advanced                      >>
  语言/Language                  >>
 Factory Reset                  >>
```

2. Push the knob to enter menu as follows. There are 8 items can be set.

```
 ->Output Brightness            >>
 Hot Backup                     >>
 Input   Adjust                 >>
 Output   Adjust                >>
```

```
->LOGO Setting                  >>
  Test Pattern                  >>
  Save Setting                  >>
  System Setting                >>
```

Output Brightness

Change Mode: can be selected as <Alone> or <Together>,

If <Alone> is selected, user can set each output port brightness, the setting range from 0~128.

```
 ->Change Mode               Alone
    DVI 1                      128
    DVI 2                      128
    DVI 3                      128
```

```
    DVI 4                      128
```

if <Together> is slected, user can set all DVI output port brightness together, the setting range from 0~128.

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```
->Change Mode                    Together
   DVI ALL                          0
```

Hot Backup

Enter to <Advanced> menu, switch <Hot Backup> to <ON>, push knob to confirm, enter hot backup setting menu.

```
Output Brightness               >>
->Hot Backup                    >>
Input   Adjust                  >>
Output  Adjust                  >>
```

```
Hot Backup                      ON
Hot Backup Input                DVI1
Hot Backup 1                    DVI2
Hot Backup 2                    Module7
```

```
Hot Backup 3                    DP
```

Hot Backup is used for keeping output safety. If Hot Backup Input is out of working, then the selected Hot Backup 1, Hot Backup 2 would shift as output automatically. The Hot Backup can be any signals from DVI1, DVI2, DP and 3 optional input modules.

Input Adjust

```
->Input Details                 >>
  Image Quality                 >>
  Zoom                          >>
  Mask                          >>
```

```
  VGA   Adjust                  >>
  USB   Control                 >>
  Exit CVBS Control             >>
```

Input Details: Set 4 input signal and resolution

Image Quality: Not support Input

Zoom: Zoom Up/Down, Zoom Up & Down, Zoom Left/Right, Zoom Left & Right. Zoom Center, Reset Parameters.

Mask: Mask Left/Right/TOP/Bottom/Reset Mask.

VGA Adjust: Can only be set by installing VGA input optional module.

USB Control: Can only be set by installing USB input optional module.

Exit CVBS Control: Can only be set and exit by installing CVBS input optional module.

Output Adjust

Set DVI 1- DVI 4 output port.

Mode by DVI (Default)or HDMI

Bit Depth:8 Bit(Default)

Data Range: Image(Default) or Video

De ON/OFF

LOGO Setting

Including LOGO Load and LOGO Capture:

```
->Logo Load                        >>
   Logo Capture                    >>
```

⇩

```
->Select Layer              Layer A
   LOGO Select              LOGO1
   LOGO On/Off                On
```
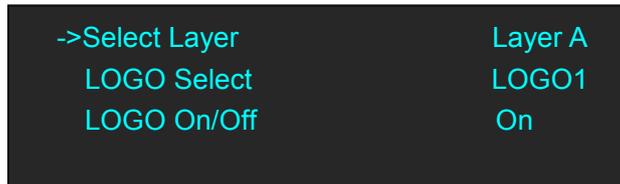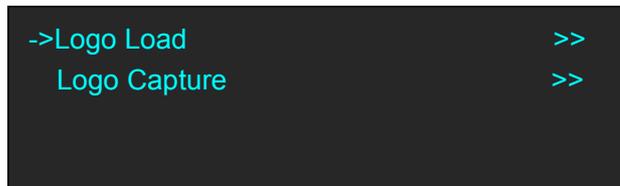
LOGO Capture: LOGO can be captured from any input source and saved as LOGO 1 -10. Items menu as follows:

.

```
->Save to                   LOGO 1
   Select Layer             Layer A
   Select Input              DVI 1
   LOGO Freeze                Off
```

```
->LOGO On/Off                On
   Start Capture Logo
```

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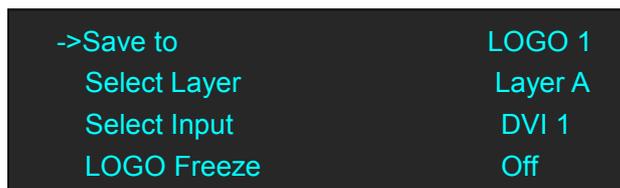
Test Pattern

```
->TP mode                    Off
  Red                        255
  Green                      255
  Blue                       255
```

Test Pattern Including:

TP mode: off/Color Bar/Solid Color

RGB Color adjust: Adjust range 0-255

Save Setting

```
->Save to                    >>
  Load from                  >>
  Delay recall               1s
  Real-Time Save Mode        On
```

Save to: Saving data within 24 files.

Load From: Recall the saved data.

Delay recall: Setting recall time

System Setting

```
->SN                         1397
  Version                    >>
  Technical Support          >>
  Date/Time                  >>
```

```
->Lock Front Panel           >>
  License Setup              >>
  User Defines Button        >>
  OLED Brightness            >>
```

```
->Fans Control               >>
```

System setting including Setting some basic parameters and some special function:

Lock Front Panel, License Setup, User Defines Button and Fans Control etc.

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语言/Language Setting

1. Push <Menu>, turn the rotary knob to <语言/Language Setting>, push knob to confirm.
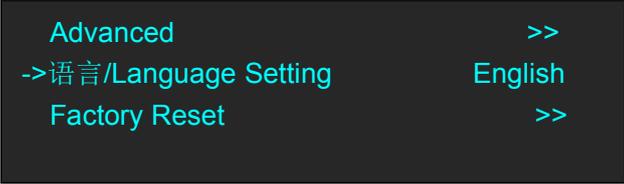
```
Advanced                        >>
->语言/Language Setting      English
  Factory Reset                 >>
```

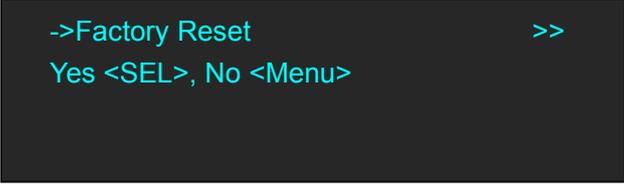2. Turn the knob to select English or 简体中文. Push the knob to confirm.

Factory Setting

1. Push <Menu>, turn the rotary knob to <Factory Reset>, push the knob to confirm.

```
->Factory Reset                 >>
```
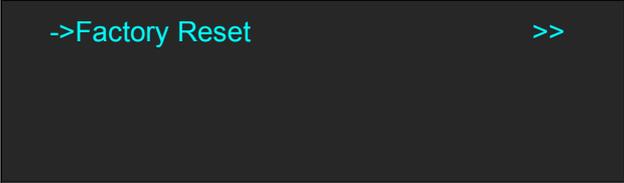
2. Push the knob to enter Factory Reset menu as follow:

```
->Factory Reset                 >>
Yes <SEL>, No <Menu>
```

3.If confirm, the all setting will return to default setting.

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Using Black Out

Black out descriptions:

Black signal realizes one-key-touch to a black screen.

VENUS X1PRO E provides black effect processing for output with cut black effect. Operation is as below:
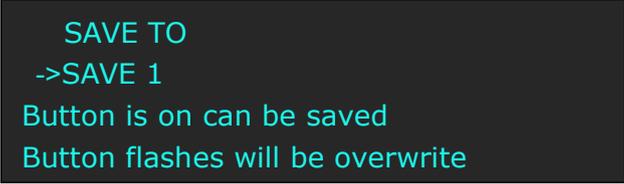
Push the [BLACK/0] button, then output will cut to BLACK, shown as below:
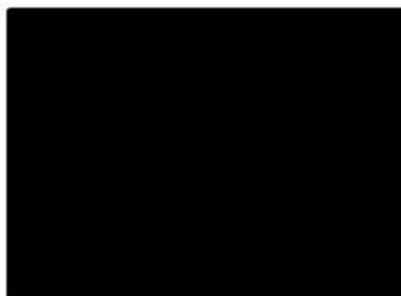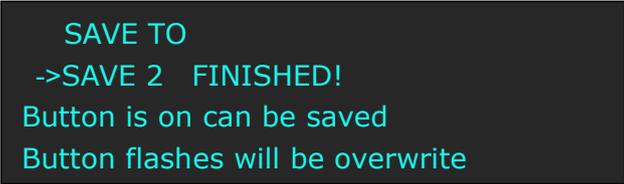
Saving Views

VENUS X1PRO E provides 24 positions for saving or recording parameters. To save current parameters and settings:

1. Push the [SAVE/1] button, the button light is on, and enable the SAVE function.

```
    SAVE TO
 ->SAVE 1
Button is on can be saved
Button flashes will be overwrite
```

2. Turn the rotary knob, and select the position that will save, push the knob to confirm.
3. The number button 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 means SAVE1~9, push any button on to save. For example, push number button 2 and save to SAVE 2, the OLED panel will show as follows after saving.

```
    SAVE TO
 ->SAVE 2   FINISHED!
Button is on can be saved
Button flashes will be overwrite
```

4. Push the [SAVE/1] button again, the button light is off, and disable the SAVE function.

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Recall Saving Settings

VENUS X1PRO E provides 24 positions for saving or recording parameters. To recall saved settings:

1. Push the [LOAD/6] button, the button light is on, and enable the LOAD function:
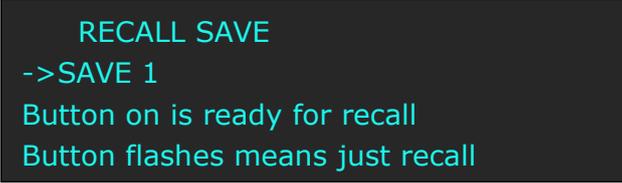
```
    RECALL SAVE
->SAVE 1
Button on is ready for recall
Button flashes means just recall
```

2. Turn the rotary knob, and select the position that will load, push the knob to confirm.

3. Push the [LOAD/6] button again, the button light is off, and disable the LOAD function.

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Contact Information

Warranty:

All video products are designed and tested to the highest quality standard and backed by full 3 years parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable. RGBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lighting strikes, abuse(drop/crush), and/or other unusual damages.
The customer shall pay shipping charges when unit is returned for repair.

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