LED Video Processor
User Manual V1.1

⚠ Before using this LED Video processor，please read this manual carefully and preserved for reference in the future.

MAGNIMAGE

LED-750H

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Directory

Overview

Thanks for your purchasing our LED Video processor. Do hope you can enjoy the experience of the product performance. The design of the LED video processor conforms to international and industry standards. But if with improper operation, there will be a personal injury and property damage. In order to avoid the dangerous, please obey the relevant instructions when you install and operate the product.

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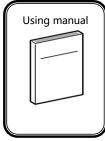
About Software
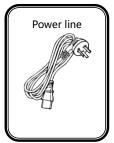
Do not change, decompile, disassemble, decrypt or reverse engineer the software installed in the product, these acts are illegal.

Features

- 2 screens mosaic in 1 processor. 4 DVI output ports are divided into 2 groups for horizontal mosaic, vertical mosaic, same size mosaic and different size mosaic. One single processor up-loads 4,600,000 pixels.
- 4 windows output. On non-mosaic mode, each output is capable of displaying 4 layers within any size or position.
- Preview switching： preview switching between 1 image and 3 images.
- Multiple cascade： machines can be cascaded to realize ultra wide display.
- Built-in input matrix for seamless switching between 7 inputs
- EDID management & user-defined output resolution
- Rotary output
- LOGO saving& image crop
- Time and task & graphic card for testing
- Computer host control
- Save and load preset & image freezing

Accessories Included

Using manual	Power line	DVI cable	USB cable

Big DP port cable	HDMI cable	Certificate of quality	VGA cable

产品合格证
本产品经检验合格准予出厂
检验员 ____
日期 ____
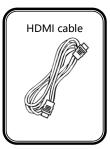
Extended Port

LED-750H is a basic model. On this basis, it can also expand simultaneously two 2K input source【VGA、DVI、SDI、USB (allows only 1 USB)】or one 4K input source【DP, HDMI】.

Port		Model	Explanation
Input port	Extended one DVI module	LED-750HD	1 DVI module includes 1 DVI input and 1 DVI loop
	Extended two DVI modules	LED-750HD2	1 DVI module includes 1 DVI input and 1 DVI loop
	Extended one DVI module and one VGA　module	LED-750HDV	1 DVI module includes 1 DVI input and 1 DVI loop； 1 VGA module includes 1 VGA input and 1 VGA loop
	Extended one DVI module and one SDI module	LED-750HDS	1 DVI module includes 1 DVI input and 1 DVI loop； 1 SDI module includes 1 SDI input and 1 SDI loop
	Extended one VGA module	LED-750HV	1 VGA module includes 1 VGA input and 1 VGA loop
	Extended two VGA modules	LED-750HV2	1 VGA module includes 1 VGA input and 1 VGA loop
	Extended one VGA module and one SDI module	LED-750HVS	1 VGA module includes 1 VGA input and 1 VGA loop 1 SDI module includes 1 SDI input and 1 SDI loop
	Extended one SDI module	LED-750HS	1 SDI module includes 1 SDI input and 1 SDI loop
	Extended two SDI modules	LED-750HS2	1 SDI module includes 1 SDI input and 1 SDI loop
	Extended one DP module	LED-750HP	1 DP module includes 1 DP input

Port		Model	Explanation
Input port	Extended one HDMI1.4 module	LED-750HH14	1 HDMI module includes 1 HDMI(1.4) and 1 DVI input(HDMI1.4 protocol)
	Extended one dp1.1 module	LED-750HP11	1 DP module includes 1 DP(1.1) and 1 DVI input(HDMI1.4 protocol)
	Extended one USB module	LED-750HM	1 USB module includes 1 USB input

Safety Instructions

- Please use the correct power supply, 100～240V AC, 50/60Hz.
- Before you connect or pull out any signal cable or bound guideline, please confirm that all the power supply cords have been pulled out.
- Whenever add or pull out any hardware device to the LED video processor, make sure all of the signals and power cables have been pulled out ahead.
- Before you operate any hardware, please cut the LED video processor's power, and ensure you are on electrostatic by touching the ground surfaces.
- Please use the processor in clean, dry and ventilated environment, do not use it in the high temperature, humid environment.
- The product is an electronic product; please stay away from the fire, water and of which is inflammable and blast, dangerous.
- This product is with high pressure components, please don't

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open the case or maintain it by yourself.

● If there is any unusual condition with smoke or bad smell, please turn off the machine at once and contact with the dealers.

Function Introduction

Brief
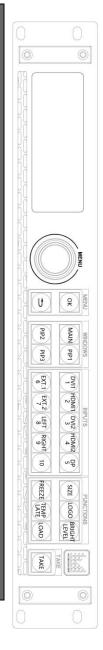
LED-750H, a superior approach to better visual performance for LED walls. It is a 4K*1K/60Hz capable video processor for 2 screens mosaic. With EDID and user-defined output management, it delivers high quality pixel-to-pixel display via its user-friendly controls. It is an ideal choice for multi-media hall, multi-purpose room, theater, studio and showroom.

Supporting all kinds of input ports, it outperforms competitor products in terms of loading capacity and broadband utilizing rate (the up-processor width is7680, and refresh rate reaches up to 120Hz. Also, 18 selective built-in resolutions allow user to scale and match the real size of LED walls.

Input ports include DVI*2, HDMI*2, DP*1(4K). For extended inputs, user can choose 2 ports from VGA, DVI , SDI and USB or 1 ports from DP1.1 or HDMI1.4.

It accepts network linking, USB linking or RS232 linking for different control demands.
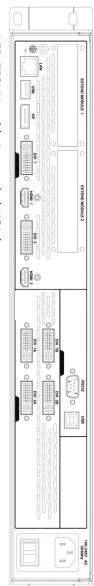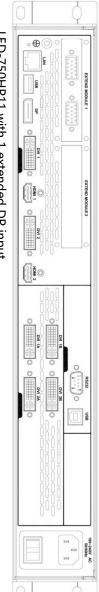
Button Introduction		
Knob	To move, select, or set the value	
OK	To enter the main menu, or select the	
⮐	Return key	
MAIN	Main image	
PIP1	PIP1	
PIP2	PIP2	
PIP3	PIP3	
DVI1/1	DVI1input key/template 1	
HDMI1/2	HDMI1input key/template 2	
DVI2/3	DVI2input key/template 3	
HDMI2/4	HDMI21input key/template 4	
DP/5	DP input key/template 5	
	EXT.1/6	Extended input key/template 6
	EXT.2/7	Extended input key/template 7
	LEFT /8	The left part of DP input 8
	RIGTH /9	The left part of DP input/template 9
	10	template 10
	SIZE	Shortcut key to the size setting of image
	LOGO	LOGO key
	BRIGHT LEVEL	To enter brightness level setting
	FREEZE	To freeze the output image
	TEMPLATE	Quick access to machine's fixed templates
	LOAD	Quick access to presets
	TAKE	Seamless switching on switching mode

About the back
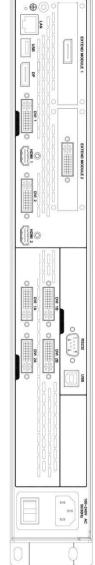
LED-750H standard unit
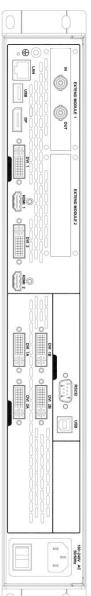
LED-750HV   with 1 extended VGA input

LED-750HP11 with 1 extended DP input

LED-750HS with 1 extended SDI input

Input Port	
DVI1-DVI2	2 DVI input ports
HDMI1-HDMI2	2 HDMI input ports
DP	1 DP input port，3840×1080/60Hz or 3840×2160/30Hz
EXT.1	Extended port 1
EXT.2	Extended port 2

Output Port	
DVI1A-DVI1B	Output group 1，the DVI under is a backup port
DVI2A-DVI2B	Output group 2，the DVI under is a backup port

Technical Specifications

Input Indication		
Port	Quantity	Resolution
DVI	2 available ports in a standard unit.	1024×768/60Hz、1920×1080/60Hz, or any other VESA standard resolution
HDMI	2 available ports in a	EIA/CEA-861standard，HDMI-1.3
DP	1 available ports in a standard unit.	DisplayPort 1.1（3840×1080/60Hz, supports customized resolution）

Extended input indication		
Port	Quantity	Resolution
VGA	VGA×1、 VGA LOOP×1	1024×768/60Hz、1280×1024/60Hz, VESA standard
DVI	DVI×1、 DVI LOOP×1	1024×768/60Hz、1920×1080/60Hz , VESA standard
SDI	SDI×1、 SDI LOOP×1	The same with SDI specification
DP	DP×1	Support 3840×1080×60Hz and customized resolution
DP1.1	DP×1，DVI×1	DisplayPort 1.1，support 3840×1080×60Hz and customized resolution
HDMI1.4	HDMI×1，DVI×1	HDMI1.4，support 3840×1080/60Hz and customized resolution
USB	USB×1	Supports MP4, MKV, MOV, AVI, 3GP video format，and BMP, JPG, PNG image format

Output Indication		
Port	Quantity	Resolution (each DVI output)
DVI	4 ports, 2groups.	1024×768/60Hz 1280×1024/60Hz 1024×768/120Hz 2048×1152/60Hz 1600×1200/60Hz-reduced 1920×1080/60Hz 2176×1168/60Hz 1936×1280/60Hz 1536×1536/60Hz 1280×720/60Hz 1440×900/60Hz 1600×1200/60Hz 1680×1050/60Hz 1920×1080/50Hz 1920×1200/60Hz 1024×1280/60Hz Customized output resolution : The width resolution is up to 3840 The height resolution is up to 2160

Whole Unit Specifications	
Input Power Supply	100-240V AC~50/60Hz 0.8A
Working Temperature	0-45℃
Overall Dimensions	482.6×452×66.75 mm (L × W × H)
Net Weight	6.0KG
Overall Power Dissipation	55w

Using Menu

Using the menu system is helpful to finish all your settings to this product. LED-750H adopts a full color LCD screen to display the information. If there is no any operating or the operating is timeout, the LCD screen will be in default state. Pressing the knob and keys, the LCD screen will tell the correspondent information. Now let us start off the menu system.

How to use the keys

The front panel keys are 5 parts: MENU, WINDOWS, INPUTS, FUNCTION and TAKE.

MENU:

There are 2 buttons, "OK"、" ⤺" and one knob in this area.
Quick press to the knob is the same as pressing "OK". When pressing, the system will return to the previous menu, until to the default status.
On the main menu, "OK" button is also used to switch from browse mode to setting mode.

Browse mode	Setting mode
Picture Mode Normal Brightness 50 Contract 50 Color 50	Picture Mode Normal Brightness 50 Contract 50 Color 50
Press "OK" button or short press to the knob, we can switch from one mode to another.	

In the browse mode, rotate the knob anticlockwise, the menu will go up or go left. Rotate the knob clockwise, the menu will go down or go right. Rotate and press the knob (or press "OK" button), the menu option will be selected. After that, rotate the knob anticlockwise, the value of the selected option will decrease, while the value will be increased when rotating the knob clockwise. For other menu's setting of this page, please swift to the browse mode. Press the return key to back to the previous menu. If the setting is finished, press return key until the default status, or stay for the operation timeout for auto return. At some menus like image switching window, preset window, and test pattern window, auto return will not occur when operation is timeout.

WINDOWS：

There are 4 buttons in this area, MIAN, PIP1, PIP2 and PIP3. They are in accordance with the selected image in the processor.
Long press to the button will turn on or turn off the selected image. White stands for used, and red stands for the current selected.
Quick press to the button will select the image.

INPUTS：

There are 10 buttons in this area, DVI1, DVI2, HDMI1, HDMI2, DP, EXT1, EXT2, LEFT and RIGHT. EXT1 and EXT2 are the extended ports. If the input is DP, the processor will internally cut the image into 2 parts, named LEFT and RIGHT. Select the image at WINDOWS area, and the select the correspondent input signal.
Any button will turn white if there is input, and turn red if the input is selected.

FUNCTION：
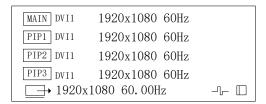
There are 6 buttons in this area： SIZE, LOGO, BRIGHT LEVEL, FREEZE, TEMPLATE, LOAD.

Button	Default operating when pressing
SIZE	Enter the size setting menu
LOGO	Turn on or turn of the logo
BRIGHT LEVEL	Enter the brightness level menu
FREEZE	Freeze the current image
TEMPLATE	Enter the template window. These templates are available in this machine
LOAD	Enter the preset window. Preset is set by the user.

Default Status

After turn on the power supply, the machine will start the system, and then we can see the machine's current status as below.

图 1 Default window when the machine is on

```
MAIN  DVI1     1920x1080  60Hz
PIP1  DVI1     1920x1080  60Hz
PIP2  DVI1     1920x1080  60Hz
PIP3  DVI1     1920x1080  60Hz
    →  1920x1080  60.00Hz          ⌐Ն⌐  □
```

	Instruction
MAIN	The default image, its port type and input resolution.
PIP1	The port type and input resolution of PIP 1.
PIP2	The port type and input resolution of PIP 2.
PIP3	The port type and input resolution of PIP 3.
⎕→	The output resolution
□	Mosaic function used

⊣Γ	Synchronize icon

Main Menu Introduction

Below symbols will appear in the main menu, their specific meaning are shown as below table：
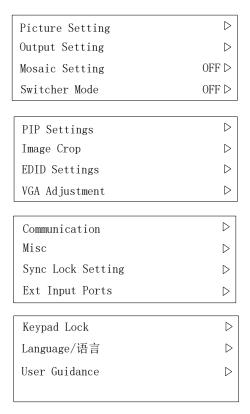
Symbols	meaning
▶	Press "OK" to enter the submenu

Through "OK" 、"⤴" and the knob ,setting the parameters or do some adjustment, below are the detailed introduction：

Purpose	Operation
Open main menu	By default , Press "OK"
Select	Rotate the knob to select the item
Parameter adjustment	Rotate the knob to change parameter
Enter the submenu	"▸" displayed in the right of the item， press "OK"
Performs	Press "OK" to confirm the item
Return to previous step	Press "⤴"
confirmation	When do some operations, such as resetting, etc. To avoid the incorrect operation, need to use the "OK" key to confirm it.

Main Menu:

In the default state, press "knob" or "OK" to enter the main MENU state, the LCD screen will show the details as below：

```
┌──────────────────────────────────────┐
│ Picture Setting              ▷        │
│ Output Setting               ▷        │
│ Mosaic Setting          OFF ▷         │
│ Switcher Mode           OFF ▷         │
└──────────────────────────────────────┘

┌──────────────────────────────────────┐
│ PIP Settings                 ▷        │
│ Image Crop                   ▷        │
│ EDID Settings                ▷        │
│ VGA Adjustment               ▷        │
└──────────────────────────────────────┘

┌──────────────────────────────────────┐
│ Communication                ▷        │
│ Misc                         ▷        │
│ Sync Lock Setting            ▷        │
│ Ext Input Ports              ▷        │
└──────────────────────────────────────┘

┌──────────────────────────────────────┐
│ Keypad Lock                  ▷        │
│ Language/语言                ▷        │
│ User Guidance                ▷        │
│                                       │
└──────────────────────────────────────┘
```
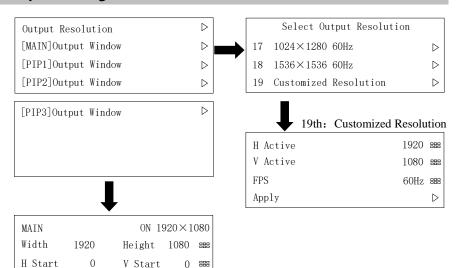
The main menu has 15 submenu items, divided into 4 pages display. Rotating "knob" to select the above listed 15 submenu title, selected, press "knob" or "OK" button to enter the selected project, press "⮐" to be back.

Image Setting submenu

Picture Mode	Standard ⟳
Bright Level	Disabled ⟳
Gamma Correction	OFF ▷
[MAIN]Picture Settings	▷

[MAIN]Input:	DVI1 ⟳
Brightness	50 ▦
Contrast	50 ▦
Saturation	50 ▦

[PIP1]Picture Settings	▷
[PIP2]Picture Settings	▷
[PIP3]Picture Settings	▷
Reset Picture Settings	▷

Hue	50 ▦
Sharpness	12 ▦
Color Temperature	▷
Reset Settings	▷

Image setting	Divided into "standard"、 "low-light 1" 、"low-light 2"、"low-light 3"、 "video"、"text"、"monochrome"、 "user" ,totally 8 item.		
Brightness level	Range 0~16		
Gamma correcting	Range 0~5		
Brightness	Range 0~100		
Contrast	Range 0~100		
Saturation	Range 0~100		
Hue	Range 0~100		
Sharpness	Range 0~24		
Color Temp	Divided into "user"、"4000K"、 "5000K" 、"6500K"、"7500K"、"8200K"、 "9300K"、"1000K"、"11500K" totally 9 options。		
	red	Range 0~255	
	Green	Range 0~255	
	Blue	Range 0~255	
Parameters restoration	Reset the parameters		

Output Setting submenu

```
Output Resolution          ▷        │    Select Output Resolution
[MAIN]Output Window        ▷        │ 17  1024×1280 60Hz          ▷
[PIP1]Output Window        ▷        │ 18  1536×1536 60Hz          ▷
[PIP2]Output Window        ▷        │ 19  Customized Resolution   ▷
```

```
[PIP3]Output Window        ▷
```

19th：Customized Resolution

```
H Active              1920  ▦
V Active              1080  ▦
FPS                   60Hz  ▦
Apply                       ▷
```

```
MAIN            ON 1920×1080
Width    1920    Height  1080  ▦
H Start     0    V Start    0  ▦
Full Screen                    ▷
```

```
MAIN            ON 1920×1080
Roation              OFF  ↻
   Available in certain condition
```

Output Resolution		LED-750H supports 18 kinds of regular output resolution, and also supports customized output resolution, horizontal maximum 3840, vertical maximum 2160. refresh rate maximum 121HZ, for details, check "output indicators", 2 group individual output with same output resolution .
Output Window	**H window**	Maximum is "**the width of the current output resolution**".(For example, 1024×768/60Hz, it's 1024)
	V window	Maximum is "**the height of the current output resolution**".(For example, 1024×768/60Hz, it's 768)
	H Position	Minimum **0**, the biggest can be set to the differentials between "**the width of the current output resolution**" and "**H Window**" ..

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	V Position	Minimum **0**，the biggest can be set to the **differentials** between "**the height of the current output resolution**" and "**V Window**"
Rotation setting		Include -90°、90°、horizontal、vertical、180°、-90°+horizontal、90°+horizontal totally 7 options

Please set the output resolution, H width and V height based on the physical resolution of LED screen. If you do not have the suitable output resolution, please select the options with bigger resolution than the reality. Or to choose the customize output resolution, to connect with the LED screen pixel to pixel directly.

For example, if there is a screen 1152×960, please choose the closest output resolution "1280×1024 60Hz". Besides, set the output H window as "1152" and V window as "960". You can also use the customized output resolution, and set the output resolution as "1152×960".
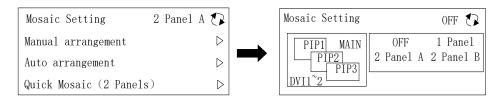
Note 1: LED-750H's 2 groups output，their output resolution is same，while the output window can be set individually

Note 2: Please be cautious when use the refresh rate that bigger than 60Hz or use greater height and width pixel output resolution, it is not sure that the back-end equipment can support this resolution.
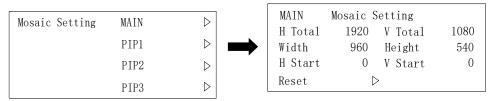
Note3： Customized output resolution is not the standard output signal, part of the monitor may not be able to identify, but does not affect the LED display, please use carefully.
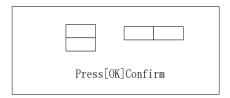
Note 4: Output rotation can only be used in particular consideration.

Mosaic submenu
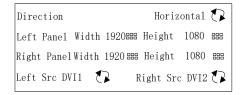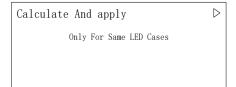
```
Mosaic Setting        2 Panel A ⟳
Manual arrangement               ▷
Auto arrangement                 ▷
Quick Mosaic (2 Panels)          ▷
```

➡

```
Mosaic Setting              OFF ⟳
 ┌─────────────┐ ┌──────────────┐
 │ PIP1  MAIN  │ │ OFF    1 Panel│
 │  PIP2       │ │2 Panel A 2 Panel B│
 │     PIP3    │ └──────────────┘
 │DVI1~2       │
 └─────────────┘
```

Manual Arrangement

```
Mosaic Setting    MAIN     ▷
                  PIP1     ▷
                  PIP2     ▷
                  PIP3     ▷
```

➡

```
MAIN    Mosaic Setting
H Total    1920   V Total   1080
Width       960   Height      540
H Start       0   V Start       0
Reset            ▷
```

```
    ┌─────┐   ┌────┬────┐
    ├─────┤   │    │    │
    └─────┘   └────┴────┘

      Press[OK]Confirm
```

Quick Mosaic (2 Panels)

```
Direction            Horizontal ⟳
Left Panel Width 1920⊞ Height  1080 ⊞
Right PanelWidth 1920⊞ Height  1080 ⊞
Left Src DVI1 ⟳    Right Src DVI2 ⟳
```

```
Calculate And apply              ▷
        Only For Same LED Cases
```

Mosaic Setting		To "open" or "close" the mosaic mode, default state is closed; include "close" , "1 panel " , "2 panels A" , "2 panels B"
Manual Mosaic		For manual setting .
	H total	The physical pixel points of the LED screen in horizontal direction
	V total	The physical pixel points of the LED screen in vertical direction.
	Width	The pixel points that the display area of the current video processor shown in the horizontal direction.
	Height	The pixel points that the display area of the current video processor shown in the vertical direction.
	H Start	The level starting position of the display area that controlled by the current video processor. The LED screen top-left corner is viewed as the original point (horizontal starting point 0).
	V Start	The vertical starting position of the display area that controlled by the current video processor. The LED screen top-left corner is viewed as the original point (vertical starting point 0).
Auto arrangement		Calculate the mosaic parameter automatically to complete the mosaic.
Quick Mosaic		Case of horizontal mosaic
	Driection	Can choose Horizontal or Vertical
	Left Panel	The LED resolution from DVI 1 output
	Right Panel	The LED resolution from DVI 2 output
	Left Src	The left input port
	Right Src	The right input port

LED-750H series video processor's mosaic setting , totally 4 mode：

Off：Close mosaic function. At this state, all the output ports output the same picture；

1 Panel：all the output ports output the same picture, while system can capture the synchronous signal automatically, this model can use for cascading mosaic.
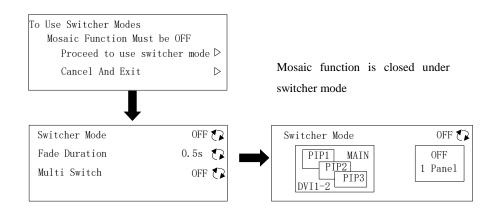
2 Panel A：the mosaic is done by DVI 1 and DVI 2. PIP 2 and PIP 3 will add PIP on DVI 1 and DVI 2. PIP 3 supports text overlay.

2 Panel B：the mosaic is done by DVI 1 and DVI 2. PIP 1 and PIP 3 will add PIP on DVI 1 and DVI 2. PIP 1 and PIP 3 supports text overlay.

Quick Mosaic:
1. If there is only 1 input, choose the input for left and right port
2. If there is a video server in the front, for example: 2 DVI or 1 4K DP, please choose the left input and right input
3. After finishing the value setting, press "Calculate And Apply".

Switcher Mode submenu

```
To Use Switcher Modes
    Mosaic Function Must be OFF
        Proceed to use switcher mode ▷
        Cancel And Exit            ▷
```

Mosaic function is closed under switcher mode

```
Switcher Mode          OFF 🔄
Fade Duration          0.5s 🔄
Multi Switch           OFF 🔄
```

```
Switcher Mode                OFF 🔄
  ┌─────┬──────┐         ┌──────┐
  │PIP1 │ MAIN │         │ OFF  │
  ├─────┤PIP2  │         │1 Panel│
  │     ├─────┤          └──────┘
  │     │ PIP3│
  DVI1-2└─────┘
```

Switcher mode	include "OFF"，"single screen "and "dual screen "
Fade duration	Range 0-3 second
Multi switch	Through the "TAKE" key, to realize synchronous switching for multi 750H within same area network
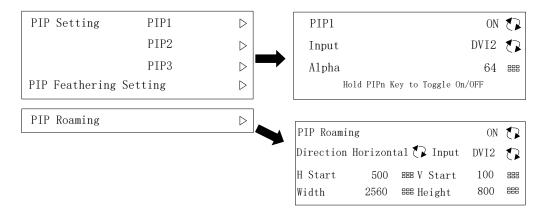
Switcher mode do not work together with mosaic mode

LED-750H series switcher mode, totally 2 options：
Off : Turn off the the switcher mode function
1 panel: output DVI1 output preview，there's a "Preview" in red displayed in the top left corner, DVI2 is the program output.

PIP Setting

```
┌─────────────────────────────────────────┐   ┌─────────────────────────────────────┐
│ PIP Setting        PIP1          ▷       │   │ PIP1                    ON  ⟳        │
│                    PIP2          ▷       │   │ Input                  DVI2 ⟳        │
│                    PIP3          ▷       │   │ Alpha                   64 ▦        │
│ PIP Feathering Setting           ▷       │   │     Hold PIPn Key to Toggle On/OFF  │
└─────────────────────────────────────────┘   └─────────────────────────────────────┘

┌─────────────────────────────────────────┐   ┌─────────────────────────────────────┐
│ PIP Roaming                      ▷       │   │ PIP Roaming              ON  ⟳       │
└─────────────────────────────────────────┘   │ Direction Horizontal ⟳ Input  DVI2 ⟳│
                                               │ H Start     500  ▦ V Start  100  ▦ │
                                               │ Width      2560  ▦ Height   800  ▦ │
                                               └─────────────────────────────────────┘
```

In PIP Setting submenu, do such adjustments : turn on or off pip, select the
input signal, transparency adjustment（0-64）

To change the pip size, use the "SIZE" key in the front panel .

PIP Feathering Setting：available when "Mosaic Mode" - "2 Panels" . You can
set the feathering effect of PIP 2 and PIP 3.

PIP Roaming：available when "Mosaic Mode" - "2 Panels" . You can add one
cross-screen PIP and set the size or position in this menu.

Image Crop submenu

Image Crop	MAIN	▷
	PIP1	▷
	PIP2	▷
	PIP3	▷

➡

MAIN		DVI2
Image Crop		OFF ↻
Parameters	(0,0) 1920×1080	▷
Reset Image Crop Settings		▷

⬇

H Start	0	▦
V Start	0	▦
Width	1920	▦
Height	1080	▦
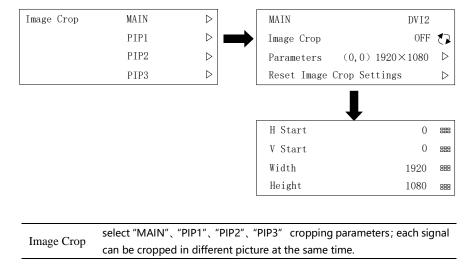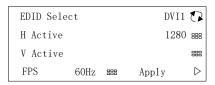
Image Crop	select "MAIN"、"PIP1"、"PIP2"、"PIP3" cropping parameters; each signal can be cropped in different picture at the same time.
Image Crop Parameters restoration	Restore the MAIN,PIP1,PIP2,PIP3 cropping parameters
Horizontal	Maximum is "width of input signal"
Vertical	Maximum is " height of input signal "
H Position	Maximum can be set to the differentials between "the width of the current output resolution" and "H Window" .
V Start	Minimum 0, the biggest can be set to the differentials between "the height of the current output resolution" and "V Window"
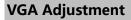
Image crop function is cropping the input signal, and output to LED screen according to setting of windows. So the size and position of image crop window is limited in the window of input signal. Setting parameter in above chart are restricted.
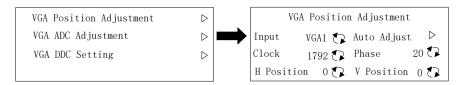
EDID setting

```
EDID Select          DVI1 ⟳
H Active             1280 ▦
V Active                  ▦
  FPS     60Hz  ▦   Apply    ▷
```

EDID select	select one input signal EDID
H Active	Horizontal width
V Active	Vertical height
FPS	Refresh rate
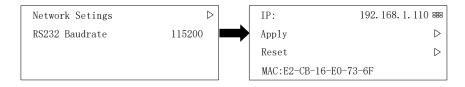
After setting EDID, different PC, different video card, need restart PC or pull ot signal line, choose appropriate resolution in PC resolution output menu.

VGA Adjustment

```
VGA Position Adjustment    ▷          VGA Position Adjustment
VGA ADC Adjustment         ▷     Input    VGA1 ⟳  Auto Adjust   ▷
VGA DDC Setting            ▷     Clock    1792 ⟳  Phase       20 ⟳
                                 H Position  0 ⟳  V Position   0 ⟳
```

VGA position adjustment	Adjust VGA signal position and time clock manually or automatically
VGA ADC adjustment	Adjust VGA color adjustment after upgrading, need work with adjustment card
VGA DDC settings	
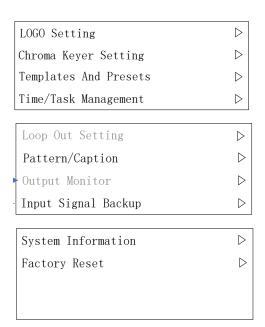
Communication Setting

```
┌──────────────────────────────────┐      ┌──────────────────────────────────┐
│ Network Setings            ▷      │      │ IP:          192.168.1.110 ▦     │
│ RS232 Baudrate      115200        │ ───▶ │ Apply                      ▷     │
│                                   │      │ Reset                      ▷     │
│                                   │      │ MAC:E2-CB-16-E0-73-6F            │
└──────────────────────────────────┘      └──────────────────────────────────┘
```
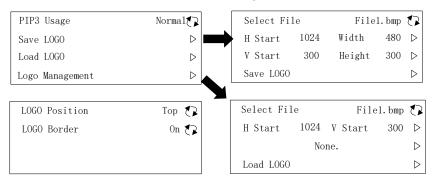
Network settings	Select IP address of this PC
RS232 Baudrate	Fixed value 115200

Misc setting

Display in 3 pages

```
┌──────────────────────────────────┐
│ LOGO Setting               ▷      │
│ Chroma Keyer Setting       ▷      │
│ Templates And Presets      ▷      │
│ Time/Task Management       ▷      │
└──────────────────────────────────┘

┌──────────────────────────────────┐
│ Loop Out Setting           ▷      │
│ Pattern/Caption            ▷      │
│▶Output Monitor             ▷      │
│ Input Signal Backup        ▷      │
└──────────────────────────────────┘

┌──────────────────────────────────┐
│ System Information         ▷      │
│ Factory Reset              ▷      │
│                                   │
│                                   │
└──────────────────────────────────┘
```

LOGO setting

```
┌─────────────────────────────────┐      ┌─────────────────────────────────────┐
│ PIP3 Usage          Normal ↻    │      │ Select File         File1.bmp ↻     │
│ Save LOGO              ▷         │      │ H Start   1024   Width    480  ▷    │
│ Load LOGO              ▷         │ ━▶   │ V Start    300   Height   300  ▷    │
│ Logo Management        ▷         │      │ Save LOGO                      ▷    │
└─────────────────────────────────┘      └─────────────────────────────────────┘

┌─────────────────────────────────┐      ┌─────────────────────────────────────┐
│ LOGO Position        Top ↻      │      │ Select File         File1.bmp ↻     │
│ LOGO Border          On ↻       │      │ H Start  1024  V Start   300   ▷    │
│                                 │ ━▶   │              None.              ▷    │
│                                 │      │ Load LOGO                      ▷    │
└─────────────────────────────────┘      └─────────────────────────────────────┘
```

PIP function	Modify normal state, used as activity picture.
	Modify logo state, used as LOGO function; PIP3 and LOGO occupy same output, can choose one of both.
Save LOGO	Modify store file, maximum 4
	Save PIP3 picture as LOGO, adjust size and position in save interface
	Horizontal area: maximum value is the width of PIP3
	Vertical area: maximum value is the height of PIP3
	H start: maximum value is the difference of PIP3 height and LOGO width
	V start: maximum value is the difference of PIP3 height and LOGO width
Load LOGO	Select one LOGO file, one per time
	H stat: horizontal position of LOGO
	V star: vertical position of LOGO
	After loading, on or off LOGO via LOGO button in front panel
LOGO Management	Can clear all save LOGO file
LOGO Position	Can select top or bottom, default state is top
LOGO Border	In the process of saving and loading LOGO, display a frame in output display screen to remind the position and size of LOGO
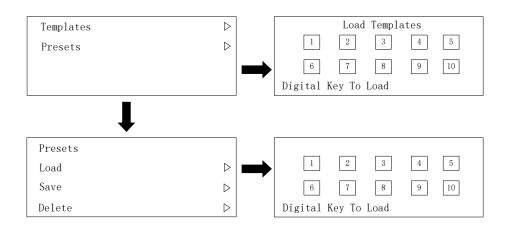
Note : PIP3 or LOGO is the same output, allows only one for using.

Chroma Keyer settings

```
Chroma Keyer（PIP3）            OFF  ↻
Chroma Keyer（PIP3）Config           ▷
Chroma Keyer（PIP1）            OFF  ↻
Chroma Keyer（PIP1）Config           ▷
```

➡️

```
Chroma Keyer（PIP3）
Keyer Mode            Red On Black ↻
Chroma Keyer Config          ▷
```

⬇️

```
Chroma Keyer（PIP3）R    G    B
Color Range（High）255   64   64
Color Range（Low） 200   0    0
        In Area  Out Area  Border
Alpha    64       64        0
```
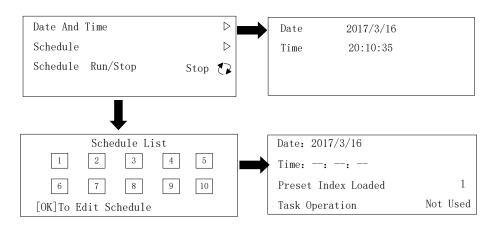
Chroma Keyer	On or off chroma keyer function
Keyer Mode	User、white on black、white on black 2、black on white、black on white 2、green on black、green on black 2、green on white、green on white 2、red on black、red on black 2、red on white、red on white 2
Color Range	Adjust red green blue separately, range from 0 to 255

Templates and Presets

```
┌─────────────────────────────────┐        ┌──────────────────────────────────────────┐
│ Templates              ▷        │        │          Load Templates                  │
│ Presets                ▷        │        │   ┌─┐   ┌─┐   ┌─┐   ┌─┐   ┌──┐           │
│                                 │  ━━▶   │   │1│   │2│   │3│   │4│   │5 │           │
│                                 │        │   └─┘   └─┘   └─┘   └─┘   └──┘           │
│                                 │        │   ┌─┐   ┌─┐   ┌─┐   ┌─┐   ┌──┐           │
│                                 │        │   │6│   │7│   │8│   │9│   │10│           │
│                                 │        │   └─┘   └─┘   └─┘   └─┘   └──┘           │
│                                 │        │ Digital Key To Load                      │
└─────────────────────────────────┘        └──────────────────────────────────────────┘
             ┃
             ▼
┌─────────────────────────────────┐        ┌──────────────────────────────────────────┐
│ Presets                         │        │   ┌─┐   ┌─┐   ┌─┐   ┌─┐   ┌──┐           │
│ Load                   ▷        │  ━━▶   │   │1│   │2│   │3│   │4│   │5 │           │
│ Save                   ▷        │        │   └─┘   └─┘   └─┘   └─┘   └──┘           │
│ Delete                 ▷        │        │   ┌─┐   ┌─┐   ┌─┐   ┌─┐   ┌──┐           │
│                                 │        │   │6│   │7│   │8│   │9│   │10│           │
│                                 │        │   └─┘   └─┘   └─┘   └─┘   └──┘           │
│                                 │        │ Digital Key To Load                      │
└─────────────────────────────────┘        └──────────────────────────────────────────┘
```

Templates	Load fixed template；enter adjust interface via template button in front panel
Presets	Load: in loading interface, load presets via pressing No. button, also enter load interface via LOAD button in front panel. Save: enter save interface, save presets via pressing No. button.
Delete	Enter delete interface, delete presets via pressing No. button

Time & Task management

```
┌─────────────────────────────────┐        ┌─────────────────────────────────┐
│ Date And Time              ▷     │   ═══▶ │ Date          2017/3/16         │
│ Schedule                   ▷     │        │ Time          20:10:35          │
│ Schedule  Run/Stop    Stop ⟲     │        │                                 │
│                                  │        │                                 │
└─────────────────────────────────┘        └─────────────────────────────────┘
          ║
          ▼
┌─────────────────────────────────┐        ┌─────────────────────────────────┐
│          Schedule List          │        │ Date: 2017/3/16                 │
│  [1]  [2]  [3]  [4]  [5]         │   ═══▶ │ Time: --: --: --                │
│                                  │        │ Preset Index Loaded         1   │
│  [6]  [7]  [8]  [9]  [10]        │        │ Task Operation        Not Used  │
│ [OK]To Edit Schedule             │        │                                 │
└─────────────────────────────────┘        └─────────────────────────────────┘
```
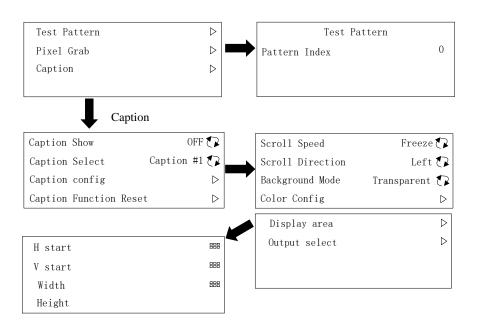
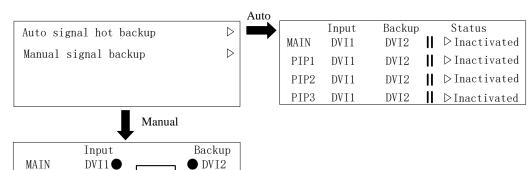| Date and time	date	Set date
	time	Set time
Schedule	Date	Set date
	Time	Set time
	Presets index	Load appropriate presets index
	Task operation	Included "not use" 、 "once" 、 "every day"
Schedule run/stop	Select schedule run or stop	

Pattern/Caption

```
Test Pattern            ▷                Test Pattern
Pixel Grab              ▷        Pattern Index              0
Caption                 ▷
```

Caption

```
Caption Show          OFF ↻      Scroll Speed         Freeze ↻
Caption Select   Caption #1 ↻    Scroll Direction       Left ↻
Caption config          ▷        Background Mode  Transparent ↻
Caption Function Reset  ▷        Color Config             ▷
```

```
                                 Display area             ▷
H start              ⊞           Output select            ▷
V start              ⊞
 Width               ⊞
 Height
```

Test Pattern	Range 0-110 ； 0 represent no test pattern display，1~72 test pattern No.。	
Pixel Grab	Modify horizontal and vertical position, show current color	
Caption	Scroll speed	included "freeze"、"speed 1"、"speed 2"、"speed 3"。
	Scroll direction	included "left "、"right"
	Background mode	Set caption transparency，included "translucent"。
	Color config	Set caption color, support user

Caption words input, need work with LED-750H software, and the maximum width of caption is 3840.

Input signal backup

```
Auto signal hot backup          ▷
Manual signal backup            ▷
```

Auto →

	Input	Backup	Status
MAIN	DVI1	DVI2 ‖	▷Inactivated
PIP1	DVI1	DVI2 ‖	▷Inactivated
PIP2	DVI1	DVI2 ‖	▷Inactivated
PIP3	DVI1	DVI2 ‖	▷Inactivated

Manual ↓

	Input		Backup
MAIN	DVI1●		● DVI2
PIP1	DVI1●	TAKE	● DVI2
PIP2	DVI1●		● DVI2
PIP3	DVI1●		● DVI2

Auto signal hot backup	Choose the output, then set the main and backup signal. "Activated" means the backup is on. "Inactivated" means the backup is off. For example, set DVI 1 as main, DVI 2 is backup, if DVI 1 signal is missing, the machine will switch to DVI 2 automatically.
Manual signal backup	Choose the output, then set the main and backup signal. After pressing "TAKE" button, the signal will be switched.
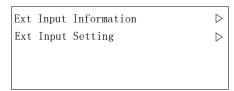
Synchronization Lock setting

```
Sync Lock Mode     Lock To main Input ⟲⟳
Sync Mode                        Auto ⟲⟳
Genlock source                   Auto ⟲⟳
Input V Freq monitor               ▷
```
➡️
```
      Input Signal Monitor
 MAIN        DVI1 1920x1080 60Hz
 PIP1        DVI1 1920x1080 60Hz
 PIP2        DVI1 1920x1080 60Hz
 PIP3        DVI1 1920x1080 60Hz
```

Synchronization Lock Mode	Include " synchronize to Main " 、 " synchronize to Genlock " 、 "synchronize to input DVI1"、 "synchronize to DVI2"、 "synchronize synchronize to HDMI1"、 "synchronize to HDMI2"、 "synchronize to DP"、 "free-rolling" .
Synchronization Mode	Include "automatic"、 "Mode 1 "、" Mode 2"。

1、 Single Machine Splicing: the Parameters of Synchronization lock setting are used default setting；

2、Multiple machine horizontal mosaic, Synchronize lock mode: set as corresponding input signal;

Synchronous mode: automatic

3、 Multiple machine vertical mosaic, Synchronize lock mode: set as corresponding input signal;

Use of synchronous mode: automatic, in case it asynchronous, try mode 1 or mode 2 advisably, they are different delay processing mode.

4、Enter the refresh rate information: you can view the specific input refresh rate (accurate to 0.01), if the screen splicing is not synchronized (synchronization icon does not appear), check the menu shows the input refresh rate; then the processor output Refresh rate into line with the input refresh rate can be

Extend input port

```
Ext Input Information          ▷
Ext Input Setting              ▷
```

Under this menu, you can view the information of the input expansion port and set the port switching rule.

Keypad Lock

```
Press 【OK】 to Lock Keypad
Press 【RETURN】 to Cancel
On Top Level Info. State
Long Press 【MAIN】 For 3s to Lock Keypad
```
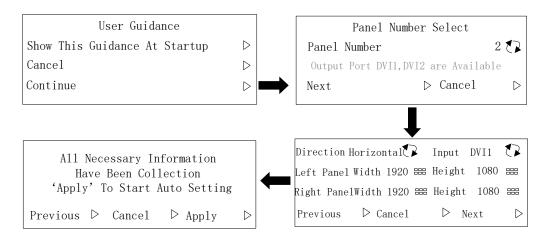
This menu can lock the processor's keys, you need to press any key to unlock, prompt button 1276 to unlock.

Language/语言 submenu

```
            Language/语言
English                        ▷
中文简体                        ▷
中文繁體                        ▷
```

English	System language show as English
Simplified Chinese	System language show as Simplified Chinese
Traditional Chinese	System language show as Traditional Chinese

User Guidance

```
        User Guidance
Show This Guidance At Startup    ▷
Cancel                           ▷
Continue                         ▷
```

```
      Panel Number Select
Panel Number                2 ↻
 Output Port DVI1,DVI2 are Available
Next            ▷ Cancel    ▷
```

```
   All Necessary Information
   Have Been Collection
 'Apply' To Start Auto Setting

Previous  ▷  Cancel  ▷ Apply  ▷
```

```
Direction Horizontal ↻   Input  DVI1 ↻
Left Panel Width 1920 ▦ Height  1080 ▦
Right PanelWidth 1920 ▦ Height  1080 ▦
Previous    ▷ Cancel    ▷  Next    ▷
```

User guidance is a short cut to LED screen setting. For more configuration,

please enter this menu.

Warranty

The whole unit warranty

- One year (since the buying date);
- If the invoice is lost, the 60 days after the production date will be the warranty start date for the product.

The warranty provisions

- The machine soaking and collisions produced besmirch or surface scratches and other abnormal using causes of malfunction or damage;
- Demolition machine or modification, which is not to be agreed by our company;
- Using in the not specified used working conditions, resulting in fault or damage (such as high temperature, low voltage or unstable etc.);
- Force majeure (such as fire, earthquake, etc.) or natural disasters (like lightning, etc) caused the fault or damage;
- Beyond the product warranty.