TV splicing box

Instruction Manual
Chapter 1. Preface

- Welcome to choose our products, thank you for the support of our products! For the safety of yourself and the equipment, please read the instruction manual carefully before using this equipment.
- Products are covered with a fragile label, please preserve it carefully which will serve as the warranty certificate.
- This product does not support lighting the screen directly, the output is connected to the HDMI port.
- Please read this guide first when you have any problems; The text has a detailed description of the device operation. If you still have questions, please contact us and we will give you a satisfactory answer as soon as possible.
- If this manual has a version changes, we will not inform you specially, thank you for your understanding and cooperation!
Chapter 2. Notices

- Please use DC 12V - 3A power supply and ensure that the entire work using the same protection system.
- Can not be in power lines, signal lines, communication lines and other cables on the pressure. The cable should be avoided to be trampled or pressed to prevent leakage short circuit, etc..
- When the device is inserted and pulled out, the equipment needs to be cut off to avoid from damage; Damage caused by live plug is not within the scope of warranty.
- The outer surface of the equipment may have an opening for heat dissipation. To prevent damage to equipment or fire caused by heat accumulation DANGER.
- The working environment of Equipment should pay attention to dust, moisture, especially to prevent Liquid immersion and splashing inside.
- The use of relative humidity: $\leq 80\%$ storage. temperature: -10 C -- +60 C , Operating temperature: 0 C -- +50 C .
- Pay attention to anti static treatment at the whole assembly and transport process.
- The whole assembly can download or side loading, and loading without hard pressure.
- The connection line between the product and the supporting module board can not be toolong. Otherwise it may affect performance and image quality.

Chapter 3. Product introduction

- This product is a special LCD TV, ultra narrow LCD screen projection HD screen splicing processor, single support 4 to 16 HDMI, the utility model relates to a signal output, which is connected with a LCD television or other display devices, User can customize a variety of splicing mode.
- Products can be cascaded to achieve maximum 255 signal output.
- The product uses the high definition processing chip, supports the 1080P signal input and the output.
- The product is designed with infrared remote control and front panel buttons. Remote control of the connector for a key shortcut control and full function control, Can also transport through the RS-232 control, a more diverse work can be expanded.
- Suitable for supporting 1 way VGA, 1 way DVI, 1 way USB, 1 way HDMI input, All input signals can be switched to the screen for splicing display.
- Suitable for audio input and output, and support audio and video synchronization output.
- Supporting any splicing screen to 180 degree flip.
- Built in flying subtitle function, you can use the control software through RS-232 communication interface to the subtitles rolling position, scroll speed, font size, Text color and background color settings.
- Built in image zoom function, you can use the control software or remote control menu on the screen to enlarge, shrink, cut the image, etc..
- Support border blanking technology, with out this technology blanking, the image will be the image appears on the visual pull; the image that has been processed by the border blanking Deformation, stretching, visual more natural.
- Support USB access, insert the U disk can be directly decoded video, pictures, MP3, documents, etc.; no need to configure other front-end equipment, simple and practical.
- Remote control support, infrared remote control can be completed on the processor the function of setting, switching and adjusting of the remote control system, the distance is up to 7 to 10 meters.
## Chapter 4. System Parameters

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<th>Apellation</th>
<th>Specifications</th>
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<tr>
<td><strong>Input Signal</strong></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>HD15 interface; Support 640x480/85HZ to 1920x1200/60HZ;</td>
</tr>
<tr>
<td>HDMI</td>
<td>HDMI1.4 (HDCP1.3) DVI1.0, HDMI embedded audio;</td>
</tr>
<tr>
<td>DVI</td>
<td>DVI-I interface (24+5), maximum resolution support 1920x1080/60HZ;</td>
</tr>
<tr>
<td>USB</td>
<td>The standard USB2.0 interface, can be connected with the U disk and other storage devices; with video, audio and image decoding, support TXT document playback support; round robin play, pause, fast forward, program list and other functions;</td>
</tr>
<tr>
<td><strong>Output Signal</strong></td>
<td></td>
</tr>
<tr>
<td>HDMI Output</td>
<td>4 HDMI output, support 2<em>2, 1</em>4, 4*1 splicing mode; single maximum support for the 16 HDMI signal output; maximum resolution support 1920x1080/60HZ;</td>
</tr>
<tr>
<td>Audio Output</td>
<td>3.5 audio interface, support stereo, audio and video signal synchronization switch;</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
</tr>
<tr>
<td>Control Mode</td>
<td>Remote Control, Front panel buttons, RS-232</td>
</tr>
<tr>
<td>Power Supply</td>
<td>DC12V-3A</td>
</tr>
<tr>
<td>Splicing Scale</td>
<td>Simple four splicing</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>50W</td>
</tr>
</tbody>
</table>

### Chassis Specification

<table>
<thead>
<tr>
<th>Size</th>
<th>210mm (length) * 160mm (width) * 45mm (height)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1.2Kg</td>
</tr>
</tbody>
</table>

## Chapter 5. Topological graph

![Topological diagram]
Chapter 6. Ports and Keys

1. Port Specification

**INPUT:**
- DC12V: 12V Power In
- RS232: Rs232 In
- USB: USB Input
- HDMI: HDMI Input
- DVI: DVI Input
- VGA: VGA Input
- AUDIO-IN: Audio Input
- AUDIO-OUT: Audio Output

**OUTPUT:**
- HDMI 1: HDMI 1 Output
- HDMI 2: HDMI 2 Output
- HDMI 3: HDMI 3 Output
- HDMI 4: HDMI 4 Output

2. Front Panel Button Specification

- POWER: Power Light
- SUBTITLE: Caption ON/OFF
- SPlicing: Splicing/Split
- VGA: VGA Interface
- UP: Up Button
- LEFT: Left Button
- IR: Remote Control Light
- MENU: MENU Button
- USB: MultiMedia
- HDMI/DVI: HDMI/DVI Interface
- DOWN: Down Button
- RIGHT/OK: Right/OK

3. Remote Control Button Specification

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Power OFF</td>
</tr>
<tr>
<td>ON</td>
<td>Power ON</td>
</tr>
<tr>
<td>PC</td>
<td>PC-RGB Signal</td>
</tr>
<tr>
<td>HDMI</td>
<td>HDMI Signal</td>
</tr>
<tr>
<td>DVI</td>
<td>DVI Signal</td>
</tr>
<tr>
<td>Volum Up</td>
<td>Volum Up</td>
</tr>
<tr>
<td>Subtitle ON/OFF</td>
<td>Subtitle ON/OFF</td>
</tr>
<tr>
<td>Volum Down</td>
<td>Volum Down</td>
</tr>
<tr>
<td>SW/SP</td>
<td>Splicing/Split</td>
</tr>
<tr>
<td>INPUT</td>
<td>Signal Source Menu</td>
</tr>
<tr>
<td>←</td>
<td>Left</td>
</tr>
<tr>
<td>→</td>
<td>Right</td>
</tr>
<tr>
<td>↑</td>
<td>Up</td>
</tr>
<tr>
<td>↓</td>
<td>Down</td>
</tr>
<tr>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>EXIT</td>
<td>EXIT</td>
</tr>
<tr>
<td>MENU</td>
<td>MENU</td>
</tr>
<tr>
<td>UPGRADE</td>
<td>UPGRADE</td>
</tr>
</tbody>
</table>
Chapter 7. Function Description

1.2*2 Splicing Mode Setting Up Description

- Put the input signal (HDMI, DVI, VGA) into the input port of the splicing box.
- Put the HDMI output of the splice box is connected to the screen (no need to be in a certain order Connection).
- Through the controller in the packing box or the button on the front panel of the equipment "MENU" call up the stitching menu, select "left" and "right" Position the menu to the stitching menu (press "up" and "down") The corresponding options, through the "left" and "right" to adjust the parameters.

Select the switching mode settings as "2X2", as shown in figure 1:

• After the adjustment, turn this splicing switcher at "open" that is the end of splicing.

![Picture 2]
2. Main Menu Description:

Menu1: Picture menu

Menu2: Audio menu

Menu3: Time menu

Menu4: Option
3. Splicing Wall Setting up
1. In the main menu, choose to enter the setup menu -> stitching mode Set up.
2. Press the left and right keys to select the appropriate splicing mode.
3. Select the HDMI port selection, and according to the port ID select phase location of stitching (curtain wall address).
4. The splicing switch is adjusted to open, you can splice.

4. Parameter Description:
HDMI port: access to the HDMI output ID number, need and spell! The same position can be spliced correctly.
Splice location: the location of the splicing wall, the curtain wall address.

5. Frame Blanking Description:
In the settings menu, find the horizontal joint regulation / vertical seam can be adjusted, frame blanking set. (for example: the level of 20mm splicing seam, the seam level is adjusted to +20MM)

6. Screen Flipping Description:
In the settings menu, select the appropriate HDMI port number, and then select the mirror menu, press the "right" button to flip.

7. LED setting Description:
This product supports LED clipping and screenshot function with rolling subtitles. Under the image menu, select the LED settings, you can enter the LED function. As picture 1:
LED Setting

**LED Image scaling**
- DISP HSTAR: Select the X axis starting point for the zoomed image
- DISP VSTAR: Select the Y axis starting point for the zoomed image
- DISP WIDTH: Select the width of the zoomed image
- DISP HEIGHT: Select the height of the zoomed image

**LED Image clipping**
- CROP HSTAR: Select the X axis coordinates for the cutting position
- CROP VSTAR: Select the Y axis coordinates for the cutting position
- CROP WIDTH: Select cutting height
- CROP HEIGHT: Select cutting weight

Flying Subtitle
- This product has a built-in scrolling subtitles function, can be directly on the screen to send rolling subtitles, no need LED screen.
- Connect the RS232 cable to the RS232 interface of the product and open the corresponding scroll caption software. The system can perform the function rolling subtitles, and can carry out various functions of subtitles in the software text location, text size, font speed, text color, background color, etc. Can also be adjusted within the LED function can be LED image scaling and LED images Cutting function, as shown in picture:
Chapter 9. Common problems and solution

- **When the connection is completed, the screen has been shown "no signal"
  1. Please check whether the signal line is plugged in.
  2. Attempt to restart the device to recapture the signal.
  3. Try to replace the signal line.

- **The remote control does not respond**
  1. Check if the remote control is abnormal.
  2. Check whether the distance is too far, there are obstacles in the middle.

- **When the connection is completed, it is found that when the screen is not connected**
  1. Check whether the set position is correct in stitching settings.
  2. Check whether the serial number and the serial number in the splicing settings correspond.

- **After the connection is completed, it is found that the screen is very blurred / Blurred screen / Double image**
  1. Check the input and output signal line is normal.
  2. Check whether the equipment is working properly.

- **When the menu is not available**
  1. Check whether or not to turn off the subtitle function (when the subtitle function open, the menu will be unavailable).

Chapter 10. Guarantee Description

- *Please identify this, from the date of purchase, can enjoy one year warranty service. In addition, not contain the mail delivery fees, provide free warranty service, details are as follows:*
  1. Due to accidental damage, unauthorized repair, improper storage resulting in mechanical failure, are not included within the scope of the warranty.
  2. The product is fragile label, the company will refuse to provide warranty service.
Thank you for using our products!