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Introduction

Introducing the PS112 Compact 4 Input HDMI and VGA Auto-Switching Presentation Switcher

The PS112 Presentation Switcher is an electronic device that allows up to 3 HDMI and 1 VGA “source” devices, such as a laptop computer and Sony® BluRay™ player, to share user-supplied content on a single HDMI display, such as a high resolution LCD display panel or a LED projector (e.g. “output”). In addition to simple HDMI source device selection, the selected source device’s audio is extracted and output on two (2) RCA connectors (left/right) designed for local sound amplification. Finally, the system auto-switches to a new source when it is connected or powered on.

Getting to Know the PS112

The graphic below points out key attributes of the PS112.
Basics

Selecting a New Source Device to Display

To display a new source, press the Source Selector button on the Front of the PS112 repeatedly until the LED on the Active Source Indicator corresponds to the desired Source Port Selection. That image should now be visible on the Display Output and can be heard on the Stereo Audio Output connectors.

Note: Selecting an input for a source that is not physically connected will cause the output display to indicate that the signal has been lost or disconnected.

Selecting a New Source Device to Display (Using IR Remote)

From the IR Remote controller, shown below, select the Right or Left buttons until the desired Source is selected. If the front panel is viewable, you will see the Active Source Indicator change when each button is pressed.
Advanced Features

Change Image Resolutions

Most source devices send an electronic inquiry to the display asking for information about its capabilities. The display sends a table of information called the Extended Display Identification Data (EDID). Using this information, the source device changes its resolution to match the native resolution of the display or some other resolution that is supported by both source and display.

The PS112 intercepts the display's response to the EDID table request and sends its own EDID information to "trick" the source into sending its content in a particular resolution and/or audio format. This method allows us to change the resolution of the source device without reprocessing the video image and degrading the quality of the native image.

**EDID Dip Switch: From Left to Right, D = Down, U = Up**

<table>
<thead>
<tr>
<th>Position</th>
<th>EDID Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>D - D - D - D</td>
<td>EDID Passthru Mode. In this mode, the source devices negotiate directly with the display for the best resolution. If display does not support audio, many devices will not send audio to the switcher and display.</td>
</tr>
<tr>
<td>D - D - D - U</td>
<td>2160p, 30Hz, Stereo Audio</td>
</tr>
<tr>
<td>D - D - U - D</td>
<td>1080p, 60Hz, Stereo Audio</td>
</tr>
<tr>
<td>D - D - U - U</td>
<td>720p, 60Hz, Stereo Audio</td>
</tr>
<tr>
<td>D - U - D - D</td>
<td>576p@50Hz, Stereo Audio</td>
</tr>
<tr>
<td>D - U - D - U</td>
<td>480p@60Hz, Stereo Audio</td>
</tr>
<tr>
<td>D - U - U - D</td>
<td>1920 X 1200, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>D - U - U - U</td>
<td>1600 X 1200, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>U - D - D - D</td>
<td>1400 X 1050, 60Hz, Stereo Audio (VESA Resolution) <em>(Shown Above)</em></td>
</tr>
<tr>
<td>U - D - D - U</td>
<td>1280 X 1024, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>U - D - U - D</td>
<td>1280 X 768, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>U - D - U - U</td>
<td>1024 X 768, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>U - U - D - D</td>
<td>800 X 600, 60Hz, Stereo Audio (VESA Resolution)</td>
</tr>
<tr>
<td>U - U - U - U</td>
<td>Firmware Upload Mode</td>
</tr>
</tbody>
</table>

Cycle power (turn power off then back on) to enable the EDID table change.