

4K UHDTV

# Switchers

## PS112 DATA SHEET

### 4 X 1 HDMI & VGA AUTO-SWITCHER WITH STEREO AUDIO OUT

The PS112 is a next generation super high resolution 3 HDMI & 1 VGA to 1 HDMI output switcher with stereo audio output extracted from the selected source. This switcher supports a wide range of HDTV and PC/VESA resolutions up to 4K2K (3840x2160). Users are able to select a source by pressing the push-button selector located on the front of the unit or by using an IR (infra-red) remote. Each system ships with an under-table mounting kit for small boardrooms and conference room tables. By default, the PS112 allows sources to negotiate the preferred output resolution by interfacing directly with the room's display. An EDID selector feature is used to optionally force sources to output a specific resolution.

PS112 Front View



PS112 Back View



#### COMMON APPLICATIONS

The PS112 is commonly used in small conference rooms, boardrooms, and collaborative spaces where multiple multimedia devices share a single display. HDMI is the most common signal format used in corporate, consumer, and mobile devices.

The built-in stereo audio extractor is perfect when the audio from the flat panel display or projector is inadequate. Audio from the PS112 can be sent to a set of local powered speakers for simple, easy to use, and cost effective sound amplification.

#### FEATURES

**4K2K** 1080p is no longer the highest resolution standard for consumer products. 4K2K (3840x2160) or "Ultra HDTV" is quickly becoming the new standard, especially in larger flat panel display systems. The PS112 supports a wide array of HDTV and PC/VESA resolutions - including the new 4K2K standard.

**AUTO-SWITCHER** The PS112 has a unique auto-sense, auto-switch feature that automatically switches to the source when a new source is connected to the system. For example, HDMI-4 could be used for the home room computer and HDMI-3 used for the local document camera. VGA-1 and HDMI-2 are used for the guest lecturer podium. When a guest connects his/her laptop, the signal automatically will appear on the display. This automation often removes the necessity of costly control systems within a classroom.

**AUDIO OUTPUT** Often, the sound coming from a flat panel display or projector is inadequate for smaller boardrooms, conference rooms, and collaborative presentation spaces. In these situations the audio from the PS112 is connected to a set of local powered speakers. Whether the source is a desktop computer, laptop, iPad™, or BluRay™ player with HDCP encrypted content, the audience will hear everything. In some classroom situations, audio from the PS112 is wired to an integrated microphone mixer then to the speakers for microphone "voice lift" support within the classroom.

**PUSH-BUTTON CONTROL** Simple push-button source selection makes controlling the PS112 simple. LEDs on the front panel always indicate which source has been selected.

**IR CONTROL** An IR (infra-red) remote ships with each PS112 for simple source selection. Many 3rd party controllers, such as Crestron, AMX, Extron, FSR, HRS, and others provide additional controllers that can control the PS112. These controllers include wall-mount, table-top, and tilt-up button and color touch-panel controllers.

**LOW PROFILE** The small foot print of the PS112 make this product perfect for under-table solutions keeping the electronics well away from knees and feet of end-users.

**HDCP** Full HDCP (High Definition Content Protection) compliant.

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## TECHNICAL DATA

### VGA INPUT

Format:	(1) HD15, RGBHV, 15-pin, female
Signal:	0.5-1.5Vp-p
Impedance:	75 Ohm

### AUDIO INPUT, L/R

Format:	(1) 3.5mm, Mini Audio Jack (TRS), unbalanced stereo, female
Freq Resp:	20 Hz to 20 kHz, +/- 0.05 dB
THD+N:	0.01% @ 1kHz at nominal level
Sig/Noise:	> 90 dB at Vin = 0V, A-Weighted
Impedance:	> 10k Ohms, unbalanced, AC coupled
Nom Level:	-10 dBV (316 mVrms)
Max Level:	+6 dBV (2 Vrms), unbalanced at 1% THD+N

### HDMI INPUT

Format:	(3) HDMI V1.4b, 19-pin, female, HDCP V1.4
Signal:	0.5-1.5Vp-p, DDC Lines: 5 Vp-p, TTL
Impedance:	100 Ohm
Audio Format:	Repeater mode: HDPlay-RX to HDMI-Tx, IEC 60958, IEC 61937, HBR Streams (Dolby TrueHD, DTS-HD, MPEG2), one bit audio (SACD), DST (compressed DSD). S/PDIF compliant with IEC 60958 and IEC 61937, HBR Streams (Dolby TrueHD, DTS-HD, or MPEG2), PCM

### HDMI OUTPUT

Format:	(1) HDMI Type A, female, HDMI V1.4b 6.75 Gbps (2.25 Gbps per color), 297 MHz Bandwidth
HDMI Input Resolutions, HDTV:	480i@29.97/30/60/199.88/120Hz, 480p@59.94/119.88/120/240Hz, 576p@50/100/200Hz, 720p@50/59.94/60/100/119.8 8/120Hz, 1080i@25/29.97/30/50/59.94/60Hz, 1080p@23.976/24/29.97/30/50/59.94/60Hz 3840x2160@30Hz (4K/2K)
HDMI Input Resolutions, PC:	640x350@85Hz, 640x480@60/67/73/75/85Hz, 720x400@85, 800x600@56/60/72/75/85Hz, 832x624@75Hz, 852x480@60Hz, 1024x576@60Hz, 1024x768@42/60/70/75/85Hz, 1152x864@75Hz, 1152x870@75Hz, 1280x768@60/75/85Hz, 1280x960@60/85Hz, 1280x1024@60/75/85Hz, 1360x768@60Hz, 1365x1024@60/75Hz, 1400x768@60Hz, 1400x1050@60Hz, 1440x960@72Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@60Hz

### HDMI OUTPUT (CONTINUED)

VGA Input Resolutions, HDTV:	480p@59.94/60Hz, 720p@50/59.94/60Hz, 1080i@25/29.97/30Hz, 1080p@50/59.94/60Hz 2160p@30Hz
VGA Input Resolutions, PC/VESA:	800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x720@60Hz, 1280x1024@60Hz, 1365x1024@60Hz, 1600x1200@60Hz, 1680x1050@60Hz

### AUDIO OUTPUT, LINE OUTPUT

Format:	(1) 2-location RCA, Left (white), Right (red) L/R channels extracted from S/PDIF HBR Stream (Dolby TrueHD, DTS-HD, MPEG2) up to 192 kHz or PCM.
Voltage:	2Vp-p
Impedance:	50 Ohm, unbalanced

### IR CONTROL PORT

Format:	(1) 3.5mm TRS
Voltage:	5Vp-p, TTL

### ENCLOSURE

Dimensions:	180 x 90 x 28 mm, (7.09" x 3.54" x 1.1")
Weight:	0.48 kg, (1.06 lbs)
Power:	5 VDC, 2A, 6 Watts
Material:	Metal, Black Matte Finish

### CERTIFICATIONS

Safety:	CE
Environ:	CE, FCC, RoHS

### ENVIRONMENTAL

Storage Temp:	-20° C to 70° C (-4° F to 140° F)
Storage Humidity:	10% to 90%, non-condensing
Operating Temp:	0° C to 35° C (32° F to 95° F)
Operating Humidity:	10% to 90%, non-condensing
ESD Protection:	+/- 8kV (Air-Gap Discharge) +/- 4kV (Contact Discharge)

### WARRANTY

Coverage:	1 Year, Parts & Factory Labor
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Note: All nominal levels are at +/-10%. Specifications are subject to change without notice.