

4K UHDTV

Switchers

PS190 DATA SHEET

5 X 1 HDMI AUTO-SWITCHER WITH INTEGRATED AUDIO MIXER, INJECTOR, & STEREO OUTPUT

In simplest terms, the PS190 allows 5 HDMI sources to share one display or projector with a resolutions up to UHDTV (3840x2160). The 3.5mm stereo input port allows a line level microphone or iPod to be mixed with audio from the selected HDMI source then re-injected into the HDMI stream. An RCA stereo output provides a pre-amplified output for local speakers, if the volume from the display is inadequate or if audio recording is necessary. The system's auto-sense, auto-switch feature combined with the automatic integrated display power on and off makes the system extremely easy to use. But, for those that require Crestron, AMX, or other 3rd party control, an RS-232 connector is provided for power, source selection, and volume control.



COMMON APPLICATIONS

The PS190 shines in classrooms, collaborative "huddle" spaces and in small conference rooms where multiple HDMI devices share a single high resolution display.

The PS190 automatically turns on the display when someone connects or activates a connected HDMI device then sends the image to the display. When all devices are disconnected or put in sleep mode, the PS190 turns off the display saving power and display life.

Finally, the stereo audio extractor is perfect for powered speakers when the display audio is inadequate.

PS190 Back View



PS190 Front View

FEATURES

UHD 1080p is no longer the highest resolution standard for consumer products. UHD (3840x2160) or UHDTV is quickly becoming the new standard, especially in larger flat panel display systems. The PS190 supports a wide array of HDTV and PC/VESA resolutions - including 1080p and the new UHD standards.

AUTO-SWITCHER The PS190 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, when a person connects to any of the 5 HDMI inputs, that person's laptop image immediately appears on the display.

STEREO INPUT The stereo input on the PS190 allows line level microphones or mobile phone audio to be injected into the HDMI stream. This feature is an excellent way of providing cost-effective ADA voice lift capabilities within a classroom. It also allows a person the ability to play calming background music from ones iPhone prior to the start of a presentation.

STEREO 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 PS190 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.

DISPLAY ON/OFF A significant feature of the PS190 is the ability to automatically turn on the display when someone connects ones laptop, computer, or iPad then automatically shut off the display when the presentation is over and everyone has disconnected from the PS190. This communication method does not require any programming and communicates with the display through the HDMI cable.

LOW PROFILE The small foot print of the PS190 makes this product perfect for under-table solutions keeping the electronics well away from knees and feet of end-users.

HDCP Full HDCP V1.4 (High Definition Content Protection) compliant.

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TECHNICAL DATA

STEREO AUDIO INPUT

Format:	(1) 3.5mm, Mini Audio Jack (TRS), unbalanced stereo, female
Freq Resp:	20 Hz to 20 kHz, +/- 0.05 dB
THD+N:	-85 dB
Sig/Noise:	> 90 dB at Vin = 0V, A-Weighted
Impedance:	> 10k Ohms, unbalanced, AC coupled
Nom Level:	-10 dBV (316 mVrms)
Max Level:	2 Vp-p, 1.4Vrms

HDMI INPUT

Format:	(5) HDMI V2.0, 19-pin, female 3 GHz, 300 MHz TMDs, per input
Signal:	0.5-1.5Vp-p, DDC Lines: 5 Vp-p, TTL
Impedance:	100 Ohm
Audio Format:	High Bit Rate (HBR), Dolby® TrueHD™, DTS-HD Master Audio™, THX® Media Director™
HDCP	HDCP V1.4

HDMI OUTPUT

Format:	(1) HDMI Type A, female, HDMI V1.4 6.75 Gbps (2.25 Gbps per color), 225 MHz Bandwidth
HDMI Input Resolutions,	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 HDTV: 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), 3840x2160@60Hz (4K/2K @ 4:2:0)
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, 1920x1200@60Hz

STEREO OUTPUT, LINE OUTPUT

Format:	(1) 2-location RCA, Left (white), Right (red) up to 192 kHz or PCM.
Voltage:	0.7 Vp-p
Impedance:	50 Ohm, unbalanced

ENCLOSURE

Dimensions:	187.5 x 127.0 x 31.50 mm, (7.35" x 5.00" x 1.24")
Weight:	0.70 kg, (1.55 lbs)
Power:	5 VDC, 1A, 5 Watts
Material:	Metal, Black Matte Finish on Base, Blue/Black on Cover

CERTIFICATIONS

Safety:	CE
Environ:	CE, 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 70° C (32° F to 158° F)
Operating Humidity:	10% to 90%, non-condensing
ESD Protection:	17kV (Air-Gap Discharge) 12kV (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.