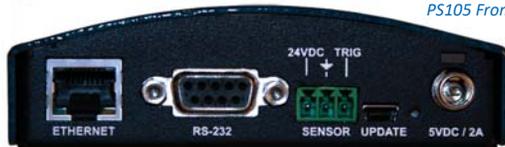# Switchers

2 X 1 HDMI AUTO-SWITCHER WITH PROXIMITY SENSOR, ETHERNET, RS232, AND CLOUD CONTROL

In a mask of simplicity, the PS105 is an under-table mountable 2 HDMI input to 1 HDMI output auto-sensing, auto-switching switcher. CEC display control automatically turns the display on when a person connects to the system and shuts the display disconnected. Further enhacing display control is a proximity sensor that shuts the system down when the room is vacated.

The PS105 is an AV-integrated IoT device. When connected to an internet-connected LAN, the PS105 uses advanced encryption technology to connect to Cloud Control, a PS-engineered Amazon AWS MQTT service for external management, control, and performance measurement. Cloud Control is an essential tool for help desk administrators for 1 to 10,000 local or distributed campus-wide management of multimedia rooms.

PS105 Front View

PS105 Rear View

COMMON APPLICATIONS

The PS105 was defined from the very beginning for classrooms, collaborative "huddle" spaces and small conference rooms where multiple HDMI devices share a single high resolution display.

The key design attributes of the PS105 are (a) automation and (b) maintainability. Automation makes multimedia spaces usable. The PS105 automatically turns on the display, negotiates resolutions, and routes the video signal. Cloud Control will not only allow the PS105 to be reset from across the world but provide critical usage statistics so administrators can manage their multimedia resources effectively.

FEATURES

CLOUD CONTROL The PS105 is compatible with Cloud Control, an Amazon AWS MQTT service developed by PS for use with its AV integrated line of IoT switchers. Cloud Control allows administrators to manage a single PS105 or thousands of PS105 devices at multiple locations.

UHD The PS105 supports HDTV and VESA resolutions - including 4K@30 and 1080p@60.

AUTO-SWITCHER The PS105 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.

DISPLAY ON/OFF A significant feature of the PS105 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 PS105. This communication method does not require any programming and communicates with the display through the HDMI cable.

PROXIMITY SENSOR A passive infrared proximity sensor and pre-terminated cable ships with each PS105. This sensor detects when everyone has left the room and shuts down the display after a predetermined period of time extending display life and saving power.

LOW PROFILE The small 4" x 4" x 1" foot print of the PS105 makes this product perfect for under-table solutions keeping the electronics well away from knees and feet of end-users.

DRAG N DROP FIRMWARE UPDATES Using the PS105's USB port connected to a Window-based computer, firmware updates are as easy and as quick as dragging and dropping a file into a directory or folder.

Presentation Switchers

TECHNICAL DATA

HDMI INPUT

Format:	(2) HDMI Type A, female, V1.4b, 19-pin
	300 MHz TMDS clock frequency, 3.4 Gbps per channel
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™
HDMI Input Resolutions, HDTV:	480i@29.97/30/60/199.88/120Hz, 480p@59.94/119.88/120/240Hz, 576p@50/100/200Hz, 720p@50/59.94/60/100/119.88/120Hz, 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
HDCP	HDCP V1.4

HDMI OUTPUT

Format:	(1) HDMI Type A, female, HDMI V1.4b
	10.2 Gbps (3.4 Gbps per ch), 300 MHz Bandwidth

ETHERNET

Format:	(1) RJ-45, female

RS-232

Format:	(1) DB-9, female
Baud:	115200 baud, 8 data bits, 1 stop bit, no parity

USB

Format:	(1) USB Type B, Mini
Type:	USB 2.0, high speed
	USB-CDC (remote serial port connectivity)
	USB-MSD (firmware upload configuration)

ENCLOSURE

Dimensions:	101.6 x 101.6 x 30.2 mm, (4" x 4" x 1.19")
Weight:	0.41 kg, (0.9 lbs)
Power (External):	Input: 100-240 VAC, 50-60 Hz
	Output: 5 VDC, 2A, 10 Watts
Material:	Steel, 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

Note: All nominal levels are at +/-10%. Specifications are subject to change without notice.

Presentation Switchers