

PS-820S 8x2 4K/60 Seamless Presentation Switcher



The HDTools™ **PS-820S** is an 8x2 seamless presentation switcher with 18 Gbps support and true 4K/60 @ 4:4:4 instant switching and individual video scaling for each output buss. The PS-820S features flexible input options including **HDMI**, **HDBaseT**, **DisplayPort**, and **USB-C**, as well as balanced audio embedding and audio mixing via S/PDIF. Together with convenient control options including relay control, the PS-820S provides a feature-rich solution for conference rooms, home theater, broadcast studios, hotel AV, auditoriums, and staging/rental environments that require seamless 4K/60 video and audio distribution.

Key Features

- Inputs: (4) HDMI, (1) HDBaseT, (1) DisplayPort, (1) USB-C, (1) VGA+Audio
- Outputs: (1) HDMI, (1) HDMI/HDBaseT Mirrored with scaling
- 4K@60Hz, 4:4:4 support with Don't Blink™ Fast Switching Technology
- Proprietary Precis codec for lossless video de-compression/compression
- HDCP 2.2 compliant
- CEC control
- Complete EDID management for individual inputs (including custom EDID)
- HDBaseT Distance: 40m@4K and 70m@1080p
- PoE on HDBaseT inputs and outputs
- Auto-switching on HDMI and HDBaseT outputs
- Audio embedding with volume control via balanced audio inputs
- Audio de-embedding with volume control via balanced analog and S/PDIF audio outputs
- Local/pass-through IR and RS-232, TCP/IP, relay, CEC and OSD

Technical Specifications

PERFORMANCE

| | |
|-----------------------|---|
| SUPPORTED RESOLUTIONS | HDBaseT/HDMI/DP: up to 4K@60Hz 4:4:4 VGA: up to 1920x1200, 50/60Hz |
| VIDEO BANDWIDTH | 18Gbps |
| COMPLIANCE | HDMI 2.0, HDCP 2.2 |
| CONTROL | RS-232, IR, LAN |

CONNECTIONS

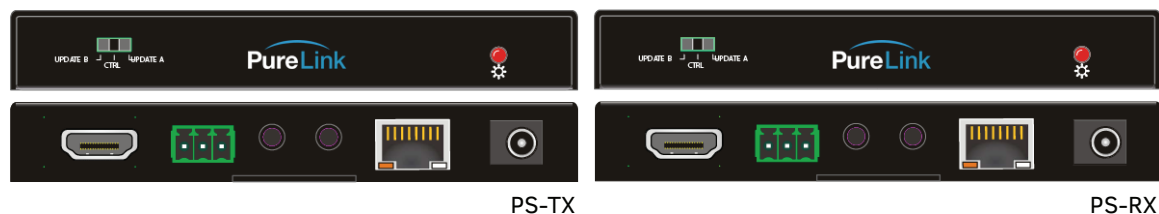
| | |
|---------------------|---|
| VIDEO INPUT TYPE/S | (1) HDBaseT [RJ45], (4) HDMI [Type-A female], (1) Display Port [Type-A], (1) VGA [15-pin female], (1) USB-C [Type-C USB 3.0] |
| VIDEO OUTPUT TYPE/S | (2) HDMI [Type-A female], (1) HDBaseT [RJ45] |
| AUDIO INPUT TYPE/S | (1) External balanced audio (L+R) for 1-HDBT input port [5-pin terminal block] (1) External balanced audio (L+R) for 2-HDBT input port [5-pin terminal block] (1) External balanced audio (L+R) for 3-HDBT input port [5-pin terminal block] (1) Stereo auxiliary audio for 6-VGA input port [3.5mm jack] (1) Balanced MIX audio [5-pin terminal block] |
| AUDIO OUTPUT TYPE/S | (1) Balanced audio (L+R) for 1-HDMI output audio de-embedding [5-pin terminal block] (1) Digital SPDIF audio (L+R) for 1-HDMI output audio de-embedding [Toslink connector] (1) Balanced audio (L+R) for 2-HDBT output audio de-embedding [5-pin terminal block] (1) Digital SPDIF audio (L+R) for 2-HDBT output audio de-embedding [Toslink connector] |
| CONTROL PORT TYPE/S | (1) RS232 [3-pin terminal block], (2) Relay [3-pin terminal blocks], (1) IR Eye [3.5mm jack], (2) IR in [3.5mm jacks], (1) IR out [3.5mm jack], (1) TCP/IP [RJ45], (1) Firmware [Type-A USB] |

ENCLOSURE

| | |
|-----------------------|------------------------------|
| OPERATION TEMPERATURE | 14°F~131°F (-10°C ~ 55°C) |
| STORAGE TEMPERATURE | -13°F~158°F (-25°C ~ 70°C) |
| RELATIVE HUMILITY | 10%~90% |
| POWER SUPPLY | Input: AC100~240V, 50/60Hz |
| POWER CONSUMPTION | 85W (max) |
| PRODUCT DIMENSIONS | 17.2" x 1.7" x 14.0" (WxHxD) |
| NET WEIGHT | 6.33 lbs |

PS-TX/RX HDBaseT™ Extender Kit for PS-820S

The **PS-820S** supports 4K/60, 4:4:4 signal extension up to 131 ft. (40 m.) via HDBaseT™ when paired with the included **PS-TX/RX** endpoints.



Technical Specifications

PERFORMANCE

| | |
|-----------------------------------|--|
| SUPPORTED RESOLUTIONS | up to 4K@60Hz (4:4:4, 8-bit) |
| SUPPORTED DISTANCE | <ul style="list-style-type: none"> • 1080p@60Hz up to 230ft. (70m) • 4K@60Hz up to 131ft. (40m) |
| COMPLIANCE | HDMI 2.0, HDCP 2.2 |
| VIDEO BANDWIDTH | 18Gbps |
| POWER CONSUMPTION | 14W (max) |
| EXTERNAL POWER SUPPLY | <ul style="list-style-type: none"> • Input Power: 12V DC 2A or PoE • AC Adapter: 100~240V, 50/60Hz |
| OPERATING TEMPERATURE | -10°C - 55°C |
| STORAGE TEMPERATURE | -25°C - 70°C |
| RELATIVE HUMIDITY | 10% - 90% |
| PRODUCT DIMENSIONS (TX/RX) | 4.5 x 0.6 x 3.3 in. |
| PRODUCT WEIGHT (TX/RX) | 0.33 lbs. |

CONNECTIONS

| | PS-TX (Transmitter) | PS-RX (Receiver) |
|----------------------|-------------------------------------|-------------------------------------|
| INPUT TYPE/S | (1) HDMI [Type-A Female] | (1) HDBaseT [RJ45] |
| OUTPUT TYPE/S | (1) HDBaseT [RJ45] | (1) HDMI [Type-A Female] |
| CONTROL PORTS | (1) IR-IN, (1) IR-OUT (1) RS-232 | (1) IR-IN, (1) IR-OUT (1) RS-232 |