



VSA-X21

HDBaseT™ Receiver with
Integrated Switcher, Audio
Amp & Embedded Web GUI



FEATURES

- 4K HDMI audio extractor with EDID management
- Built-in 50 watt amplifier for connection to 8 Ohm speakers (25 watts/channel)
- Audio input for connecting line-level audio inputs (e.g. wireless microphones).
- Control via, front panel, RS-232, digital pot (rotary encoder), Webpage or Telnet
- HDMI Ducking (when Line input is detected, HDMI sound volume in the mix is automatically lowered)
- Primary RS-232 port for device control
- Secondary RS-232 port for auxiliary device control
- Store separate commands for auxiliary devices
- HDMI and HDBT Inputs
- Compatible with VSA-UI-DP
- Compatible with UHBX-SW3-WP or UHBX-SW3-S
- Compatible with UI-KNOB-DP
- Supports HDMI, DVI, HDCP, 3D and Deep color
- Stereo or Mono output
- Priority Paging Sensor input (for automatically muting the audio output)
- Compact, Rugged, Reliable, and Economical
- Made in the USA

DESCRIPTION

The VSA-X21 is a 4K HDMI Audio Extractor with built-in 50 watt audio amplifier for direct connection of 8 ohm speakers. It provides an additional line-level stereo audio input that can mix with the HDMI audio. Volume can be controlled using front panel buttons, RS- 232 commands, WebGUI, Telnet, or via an external rotary digital encoder.

The VSA-X21 provides an independent RS-232 output port that can control other devices. Typically, to control the power on/off state of the TV or video projector connected to its HDMI output.

Full EDID management provided allows the user to learn, download, upload, emulate or pass-thru the EDID from the connected display. Use the USB port on the front panel to configure the device operation via a free Windows™ GUI available from the VSA-X21 product webpage on <http://www.hallresearch.com>.

The VSA-X21 can pass through commands from its RS-232 input to the RS-232 output, but also supports stored user-defined commands for controlling devices connected to its RS-232 output.

The stored RS-232 commands can be triggered automatically (based on detecting +5V or a HDMI input signal) or manually by user command (RS-232, Telnet or WebGUI), button press or contact closure.

The device is IP enabled giving the user the ability to control the device through a PC or Smartphone. The Telnet control uses the same commands as the serial interface.



Video Standards	HDMI 1.4 video specifications including 12 bit color depth, 3D video HDCP 1.1	
Signal Type	TMDS	
Video Connectors	(1) Locking HDMI INPUT (1) Locking HDMI OUTPUT (1) HDBT POH INPUT	
Resolutions	VGA (640x480) thru WUXGA (1920x1200), 480i up to 4K@30 Hz	
Audio Formats	All HDMI Embedded Audio including: LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio (32-192kHz sample rate)	
Other Signals	DDC CEC RS-232	Pass-Thru DDC for reading EDID directly from remotely connected LCD and HDCP handshake Pass-Thru (2) 3 Screw Terminal RS-232 IN Baud Rate: 9600, N, 8, 1 RS-232 OUT Baud Rate: Configurable at 1200, 2400, 4800, 9600, 19200, 38400, 57600, or 115200 Output factory default is 9600, N, 8, 1
USB	(1) Mini-B	
Encoder	3 Terminal, 24 Detent, 15 Position	
Power Supply	100 VAC to 240 VAC, 47-63 Hz, External; 48 VDC, 1.5A (Model: 511-PS4815)	
Temperature / Humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, non-condensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, non-condensing	
Consumption	55.33 Watts at Full Power	
Cooling	Convection + Fan (speed controlled)	
Enclosure	Metal (Steel)	
Dimensions	1.25" H x 9.00" W x 4.3" D (32 mm H x 229 mm W x 109 mm D) Depth excludes connectors	
Weight	Amplifier Kit (shipping)	1.5 lbs 4.2 lbs includes: VSA-X21, power supply w/cord, USB cable, terminal strips, users manual, and packaging
Vibration	ISTA 1A in carton (International Safe Transit Association)	
Safety	CE	
EMI/EMC	CE, FCC Class A	
MTBF	90,000 hours (calculated estimate)	
Warranty	3 years parts and labor	