

# HD621

## HDMI AUDIO PROCESSOR



### OVERVIEW

The Meridian HD621 HDMI Audio Processor is the vital link between your Meridian system and the latest sources, such as Blu-ray Disc®, satellite/TV receivers and gaming consoles with HDMI outputs.

The HD621 seamlessly integrates multiple HDMI sources – including 3D video – into your Meridian system. There's even a programmable lip-sync delay to ensure sound and picture remain in perfect synchronisation. The HD621 also separates the HDMI signal from up to six sources into audio and video elements, maximising the audio quality and keeping it free of video pollution.

### PRODUCT HIGHLIGHTS

The HD621 supports both 2D and 3D video formats and features some of Meridian's highest performance enhancement technologies, including digital audio up- and down-sampling, FIFO buffering, resolution enhancement and lip-sync control.

- Six-input HDMI switch and HDMI video output.
- Extracts up to eight channels of high-resolution audio from the HDMI data stream, supplying them to separate audio-only outputs.
- Smartlink coaxial digital audio output (up to 8 channels).
- Multichannel Meridian High Resolution (MMHR): balanced digital audio output via RJ45/Cat 5 cable (up to 8 channels).
- Supports both 2D and 3D video formats.

# USER FEATURES

- Can be easily integrated with a Meridian audio/video system and controlled by it, for example, switching the HDMI input when the appropriate selection is made via the system controller.
- Keeps HDMI video signals away from your audio equipment, minimising signal degradation caused by harmonic interference by high frequency video signals.
- A configurable audio delay system is built in, allowing you to ensure that sound is always in perfect synchronisation with the picture.
- Six front panel LEDs indicate which input is currently active.

# TECHNOLOGIES

HD621 extracts the audio signal from the HDMI input and route it through the high-tech audio processing of using leading Meridian technologies within the unit.

## UP/DOWNSAMPLING OF DIGITAL AUDIO

The MMHR and SmartLink outputs can be set to deliver either standard (44.1/48 kHz) or high resolution (88.2/96 kHz) sample rate digital audio, with resolution enhancement of up to 24-bit. When set to standard rates, the output is either 44.1 or 48 kHz irrespective of the input rate. When set to high rates, the output is always either 88.2 or 96 kHz, irrespective of the input rate. Standard sample rates are upsampled by a factor of two using Meridian's powerful apodising technology.

## FIFO BUFFERING

In addition to these features, the HDMI audio processor de-jitters digital audio received via HDMI using two FIFO (First In, First Out) buffer systems. This ensures that the audio extracted from the HDMI stream is of the highest quality.

## LIP-SYNC DELAY

The processor also includes a configurable audio delay of up to 85ms to allow lip-syncing in the event that the display system introduces an appreciable delay into the video presentation.



REAR PANEL LAYOUT

# CONSTRUCTION

The HD621 is housed in an elegant black slimline case and is available in 1U rack-mount and free-standing versions.

The front panel features a standby LED (which shows that the unit has power but is not active: it goes out when the unit is activated), plus six LEDs indicating which input is currently active. A manual select button allows you to step through the inputs.

- Separation of audio and video signals minimises opportunities for audio quality to be degraded by the presence of video. Sturdy metal enclosure, optionally rack-mounted with indicator lights for source and power.

# SPECIFICATION

CONNECTIONS	• Power input (IEC connector)	
	• DB9M Sub RS232 serial connector	
	• BNC and DIN Meridian Comms	
	• Six HDMI input sockets	
	• HDMI output	
	• 8-channel MMHR digital audio out (RJ45)	
	• 8-channel coax digital audio out (4 x phono)	
DISPLAY	• Power LED	
	• 6 x HDMI Input LEDs (selected input lights)	
DIMENSIONS/WEIGHT	• HEIGHT: 50mm [2.0in]	• WIDTH: 440mm [17.32in]
	• DEPTH: 302mm [12.87in] plus connectors	• WEIGHT: 4.5kg (10lb)
POWER	• Internal universal power supply, 100–250V AC	
	• Maximum power consumption: 40W	

# HD621 HDMI AUDIO PROCESSOR SEAMLESS INTEGRATION WITH MULTIPLE HDMI SOURCES

The HD621 separates the HDMI signal from up to six sources into its audio and video elements, maximising the audio quality and delivering it to your system free of video pollution, while the video content is fed direct to the display via a single cable, eliminating additional switching.



## THE HD621 AT A GLANCE



6 inputs and 1 output for simple, high performance HDMI switching.



Control 4 and Crestron control options plus RS232 and Meridian Comms.



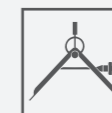
Unique Meridian High Resolution up-sampling to offer the best possible performance from Blu Ray Audio.



Discrete and easy to install – 1U form factor with rack ears.



Re-clocking of the digital audio signal to remove timing errors for superior clarity and resolution.



Multiple installation applications in home and commercial environments enabled by Meridian's unique Design and Specification Service.