

AES DIGITAL DA 2X4™

ZERO-DELAY AES DISTRIBUTION SYSTEM

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DESCRIPTION

The AES Digital DA 2X4 is a distribution system for digital audio signals. It can accept either an AES or S/PDIF digital audio stream, and create four identical AES outputs. The AES DA is 100% bit-accurate and transparent to the source, adding absolutely no delay or latency to the signal. The AES input and all four AES outputs are individually transformer balanced and isolated from ground. The S/PDIF input signal is converted to an AES standard level and source impedance. The AES I/O is via XLR connectors; Pin 1 is connected to the AC "safety" ground. The S/PDIF input is via an RCA connector; the shield is isolated from the AC ground. No user adjustments or calibration is necessary. A blue "Signal" LED confirms the presence of an input signal.

The AES DA 2X4 is powered with an internal power supply. It is 1/3 rack wide, and can be mounted using the optional Rack Shelf. It can also be mounted with Henry Engineering's Desk Mount Kit or the optional wall/cabinet mounting brackets.

WARNING! Confirm AC line voltage before connecting to AC power. The unit is factory-set for use with 115 volts AC. To change to 230 volt operation: Unplug the unit and remove the top cover. Remove two jumpers between E6+E9, and between E7+E8. Install one jumper between E6+E7. Replace F1 with a .125a fuse. Jumpers should be changed by a qualified technician only.

INSTALLATION

There are separate inputs provided for AES and S/PDIF digital inputs. Only ONE input may be used at a time; do not use both inputs simultaneously.

AES Input: connect AES Input signal to Pins 2 & 3 of the female XLR connector on the rear panel. This input is transformer-coupled and isolated from ground. Pin 1 of the XLR is internally connected to the AC "safety" ground.

S/PDIF Input: connect to the S/PDIF RCA input connector. This input is isolated from the AC "safety" ground.

There are no user adjustments on the AES DA 2X4.

OPERATION

Using the AES DA 2X4 is simple and straightforward. Either an AES or S/PDIF input signal will produce four identical AES outputs. In most cases, the shields of AES cables may be connected at both ends. In the event of an AC ground loop, the shield(s) may be disconnected from Pin 1 of the XLR connector(s).

Presence of an AES output signal of at least 3v p-p will be confirmed with the blue SIGNAL LED on the front panel. There is no delay or latency introduced; the outputs are bit-accurate "clones" of the source. Note that S/PDIF-sourced streams may include SCMS copy-code data, although this data is generally ignored by AES equipment.

SPECIFICATIONS

AES Input	110 ohms, transformer balanced
S/PDIF Input	75 ohms, unbalanced
AES Outputs	110 ohms, transformer balanced X4
Sample Rate	32 kHz – 192 kHz
Bit Depth	>24 bits
Power Input	115 or 230 VAC, 50-60 Hz, 3W
Physical Size	5.7" w x 1.7" h x 6.0" d, 3 lbs
Construction	Steel enclosure
Approvals	City of Los Angeles ETL/CE/ROHS

Specifications subject to change without notice.

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