

HALF-RACK SERIES Model HR-DDA4 Digital Audio Distributor



- 1 x 4 Digital Audio Distribution for All Formats
- Input: AES/EBU, Coaxial or Optical S/PDIF, AES-3ID
- Each Output: AES/EBU, S/PDIF or AES-3ID
- Format Conversion for Selected Output Format
- Operation Up to 24 bits, 192 kHz

- Exclusive **SURE-LOK**[™] Auto-Recovery Sentinel
- Transformer Isolated AES/EBU Input and Outputs
- Digital Signal Reclocking
- Sample Rate Indicators
- Digital Signal Lock Indicator for Each Input Format

The HR-DDA4 is an RDL HALF-RACK product, featuring an all metal chassis and the advanced circuitry for which RDL products are known. HALF-RACKs may be operated free-standing using the included feet or may be conveniently rack mounted using available rack-mount adapters.

APPLICATION: The HR-DDA4 is the ideal choice in installations requiring high quality distribution of a digital audio signal. The input and each of the four outputs support AES/EBU, S/PDIF or AES-3ID formats. The HR-DDA4 automatically detects a valid input on any of the four input jacks: S/PDIF optical, S/PDIF coaxial, AES-3ID or AES/EBU. The input is decoded, reclocked and transmitted to four individually buffered outputs. Front-panel LEDs display the digital audio format and sample rate of a valid source received without any phase-lock or bit errors.

Each output is switch-selectable to provide an AES/EBU, S/PDIF coaxial or AES-3ID output. The switch enables the appropriate output jack and any required electrical and data format conversion. The AES/EBU input and outputs are 110 Ω terminated; the S/PDIF coaxial and AES-3ID jacks are 75 Ω terminated.

The HR-DDA4 is powered from 24 Vdc, which may be connected through the detachable terminal block or through the dc power jack. A front-panel power switch is provided.

RDL's proprietary **SURE-LOK**TM auto-recovery supervision monitors possible causes of latch-up and reinitiates digital signal lock, bringing a high level of stability to digital audio signal distribution under the variety of conditions encountered in professional environments.

Use the HR-DDA4 individually, or combine it with other RDL products as part of a complete audio/video system.



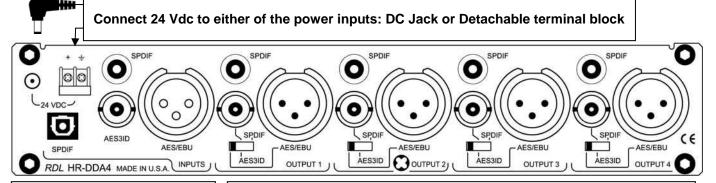
HALF-RACK SERIES Model HR-DDA4 **Digital Audio Distributor**

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4

Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice



Connect one digital audio source to the appropriate input jack:

S/PDIF OPTICAL, S/PDIF COAXIAL, AES-3ID or AES/EBU

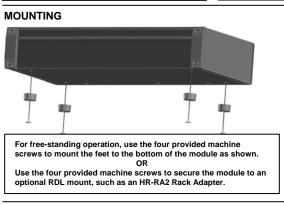
Each of the four output sections will drive one S/PDIF, AES3-ID or AES/EBU output.

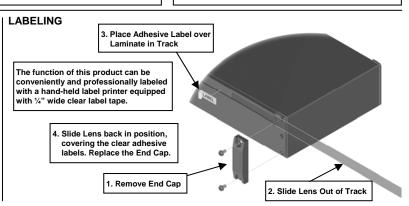
For each output section, connect one digital audio cable to the appropriate output jack:

S/PDIF COAXIAL, AES-3ID or AES/EBU

For each output section, set the output format switch to the desired format:

S/PDIF COAXIAL, AES-3ID or AES/EBU





TYPICAL PERFORMANCE

Inputs (4): 110 Ω AES/EBU XLR, transformer isolated; S/PDIF optical; 75 Ω S/PDIF

coaxial phono jack; 75 Ω AES-3ID BNC

Outputs (12): 110 Ω AES/EBU XLR, balanced transformer isolated (4); 75 Ω S/PDIF

coaxial phono jack (4); 75 Ω AES-3ID BNC (4) Rear-panel output format selector (1 for each output) Selectors (4):

Sample Rate: 32 kHz to 192 kHz

Resolution: 16 to 24 bits

POWER LED; INPUT FORMAT LEDs (2); Sample Rate LEDs (9) Indicators (12):

Standards: AES3-2003. IEC60958

24 to 33 Vdc @ 50 mA, Ground-referenced Power Requirement:

Rack-mount using optional rack adapters such as HR-RA2; or operate free-standing Mounting:

(feet included)

Dimensions: Height: 1.7 in 4.3 cm 8.6 in

Length: 20.6 cm Depth: 11.66 cm NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no quarantee that interference will not However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception. which can be determined by turning the equipment off an on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna

- Increase the separation between the equipment
- and receiver

 Connect the equipment into an outlet on a circuit different from that which the receiver is
- Consult the dealer or an experienced radio/TV