

## 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**<sup>™</sup> 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  $\Omega$  terminated; the S/PDIF coaxial and AES-3ID jacks are 75  $\Omega$  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**<sup>TM</sup> 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.



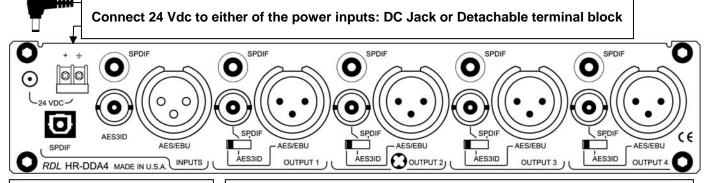
## HALF-RACK SERIES Model HR-DDA4 Digital Audio Distributor

## 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.



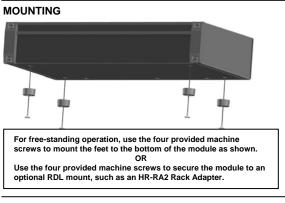
Connect one digital audio source to the appropriate input jack:

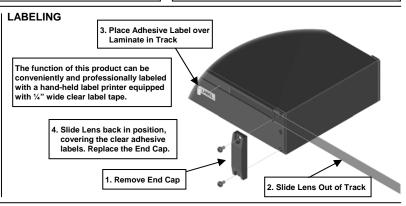
S/PDIF OPTICAL, S/PDIF COAXIAL, AES-3ID or AES/EBU Each of the four output sections will drive one S/PDIF, AES3-ID or AES/EBU output.

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  $\Omega$  AES/EBU XLR, transformer isolated; S/PDIF optical; 75  $\Omega$  S/PDIF coaxial phono jack; 75  $\Omega$  AES-3ID BNC Outputs (12): 110  $\Omega$  AES/EBU XLR, balanced transformer isolated (4); 75  $\Omega$  S/PDIF coaxial phono jack (4); 75  $\Omega$  AES-3ID BNC (4)

Selectors (4): Rear-panel output format selector (1 for each output)

Sample Rate: 32 kHz to 192 kHz Resolution: 16 to 24 bits

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

Standards: AES3-2003, IEC60958

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

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

 Dimensions:
 Height:
 1.7 in
 4.3 cm

 Length:
 8.6 in
 20.6 cm

 Depth:
 4.59 in
 11.66 cm

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