

# Digital Audio Distribution Amplifiers

## DDA Series

These AES/EBU Digital Audio Distribution Amplifiers are available in single and dual input configurations. Levels and connectors are optimized for use with balanced XLR 110 ohm cable or unbalanced BNC 75 ohm coax. Adjustable input cable equalization and multiple regenerated independent AES/EBU low jitter outputs make them ideal for the most demanding digital audio signal distribution requirements in both large and small audio and video facilities.

Sample rates from 27 to 96kHz are decoded and cleanly regenerated. Standard sample rates of 32, 44.1, 48, 88.2, and 96kHz are indicated with front panel numeric readouts. Signal status and error messages included in the AES/EBU data format are decoded and displayed to provide visual assurance of data integrity and also to provide an easy means to optimize input cable equalization.

- **Accepts sample rates from 27 to 96kHz**
- **Data relocking and regeneration**
- **Input cable equalization**
- **Status and Error indicators**
- **Transformer balanced inputs**
- **Transformer balanced 110 ohm XLR outputs**
- **Individual, isolated 75 ohm BNC drivers**
- **Loop-thru inputs with switchable terminations**
- **Up to 12XLR or 24BNC outputs per channel**



### Models

- **DDA106-XLR**
- **DDA112-BNC**
- **DDA112-XLR**

- **DDA124-XLR**
- **DDA212-XLR**
- **DDA224-BNC**

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## Technical Specifications

## DDA Series

<b>INPUT</b>	
CONNECTORS	XLR female or BNC. Paralleled input connectors for loop-thru expansion
LEVEL	XLR .2Vp-p minimum, BNC .1Vp-p minimum
IMPEDANCE	Transformer isolated, balanced and floating, XLR 110 ohms, BNC 75 ohms Terminating resistors may be switched in or out on rear panel
SAMPLING FREQUENCY	27 to 96kHz
CABLE LENGTH	> 300 meters of 110 ohm cable with equalizer, 75 ohm coax allows longer runs
EQUALIZER	Ten turn panel control, adjust using status indicators
CLOCK	Regenerated from input signal with dual mode PLL.
CLOCK JITTER	< 3nanoseconds peak to peak
<b>OUTPUTS</b>	
CONNECTORS	XLR Male, 6 or 12 depending on model. BNC chassis mount, 12 or 24.
LEVEL	XLR 4Vp-p loaded, BNC 2Vp-p loaded.
IMPEDANCE	XLR 110 ohms, balanced and transformer isolated. BNC 75 ohms, unbalanced
OUTPUT JITTER	< 3 nanoseconds peak to peak.
PROPAGATION DELAY	< 100 nanoseconds
<b>INDICATORS</b>	
SAMPLE RATE	Numerical readout of first two places of 32, 44.1, 88.2 or 96kHz rates
RECEIVED SIGNAL	Status Green NO ERROR, LOCK, VALIDITY, all ON for normal operation Errors Red PARITY, CRC (Cyclic Redundancy), BIPHASE, normal is OFF
CABLE EQUALIZER	LED SET indicator, lit Green for normal operation
POWER	Internal Supply, 115/230VAC +/- 10%, 50/60Hz, 10VA. IEC320 3 pin connector
<b>POWER</b>	
SIZE	1 RU Package, 19" (48.3cm) W x 1 3/4 " (4.5cm) H x 7" (19.1cm) D, 10lbs (4kG)
<b>WARRANTY</b>	Limited, One Year Warranty