

lucid

AD9624 & DA9624

24-Bit A/D and D/A Converters

Extraordinary converters for recording, mastering, & post.

Big features come in small boxes.

Perfect your audio with the addition of Lucid's AD9624 and DA9624 to your recording system. Each of these half rack-sized converters bridges the gap between analog and digital equipment with transparent audio conversion. True 24-bit resolution assures full dynamic range in both analog-to-digital and digital-to-analog signal paths. Both units offer stereo 96 kHz conversion for maximum sampling bandwidth. The AD9624's noise shaping options preserve the clarity of low-level 16-bit material without added distortion.

Multiple connections for flexible operation.

The AD9624 accepts input through XLR connectors, and output of its digital bit stream can flow simultaneously through AES3, S/PDIF coaxial and optical connections for recording to two formats. Or you can simply maintain multiple connections for a flexible setup. The DA9624 receives input through these same three connector types. It delivers analog output through XLR and 1/4" connectors for interfacing with balanced or unbalanced equipment. An additional front panel headphone output provides a convenient way to monitor audio levels.

Finishing touches make all the difference.

Easy-to-read 20-segment LED ladders on both converters show you exactly where to set I/O controls for optimal A/D and D/A conversion. Rack the AD9624 next to the DA9624 using a Lucid RM-4 rackmount tray or use either unit on its own for your specific interface requirements.



AD9624 Key Features

- Stereo 96 kHz A/D conversion
- Internally generated sample rates of 32, 44.1, 48, 88.2, and 96 kHz and external sync by way of word clock
- True 24-bit resolution using high-precision converters
- User-selectable 16-bit noise shaping
- Simultaneous AES3 (XLR), S/PDIF (coaxial), and S/PDIF (TOS-LINK) digital outputs
- 20-segment input level LED ladders with peak hold

DA9624 Key Features

- Stereo 96 kHz D/A conversion with separate headphone volume control and line out
- True 24-bit resolution using high-precision converters
- Digital input through AES3 (XLR), S/PDIF (coaxial), and S/PDIF (TOS-LINK) connectors
- 20-segment input level LED ladders

AD9624 A/D Converter

Performance

- Frequency response
 - For sample rates of 88.2 kHz and 96 kHz: 20 Hz to 40 kHz (+/-1 dB)
 - For sample rates of 44.1 kHz and 48 kHz: 20 Hz to 20 kHz (+/-1dB)
 - For 32 kHz sample rate: 20 Hz to 15 kHz (+/-1 dB)
- Internally generated sample rates: 32, 44.1, 48, 88.2 and 96 kHz and external sync via word clock
- Dynamic range: >114 dB, A-weighted
- Analog input impedance: 20 kΩ balanced, 10 kΩ unbalanced
- Maximum analog input level at full CCW: +25 dBu balanced
- Maximum analog input level at full CW: -5 dBu balanced

Connectors

- Analog inputs: Balanced XLR
- Digital outputs: AES3 (XLR), S/PDIF (coaxial), and TOS-LINK (optical)
- Word Clock input: BNC
- Power supply: External AC (Lucid PS-3 or PS-3E) using 7 pin DIN connector

Physical

- 1/2U Chassis (H x W x D): 1.72 in. x 8.5 in. x 8 in. 4.37 cm x 21.59 cm x 20.32 cm
- Weight: 6.7 lb. (shipping)

DA9624 D/A Converter

Performance

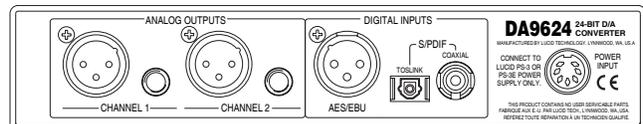
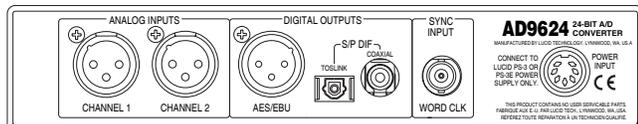
- Frequency response
 - For sample rates of 88.2 kHz and 96 kHz: 20 Hz to 40 kHz (+/-1 dB)
 - For sample rates of 44.1 kHz and 48 kHz: 20 Hz to 20 kHz (+/-1 dB)
 - For 32 kHz sample rate: 20 Hz to 15 kHz (+/-1 dB)
- Dynamic range: >114 dB, A-weighted
- Analog output impedance: 100 Ω balanced, 50 Ω unbalanced
- Maximum analog output level: +25 dBu balanced @ 0 dBFS
- Maximum headphone output level: 20 V peak to peak into 2000 Ω, 160 Ω output impedance
- Analog output attenuation range: ∞ to 0 dB, +/-2 dB

Connectors

- Digital inputs: AES3 (XLR), S/PDIF (coaxial), and TOS-LINK (optical)
- Analog outputs: Balanced XLR, balanced/unbalanced 1/4" TRS, and front panel-mounted headphone output: stereo 1/4" TRS
- Power supply: External AC (Lucid PS-3 or PS-3E) using 7 pin DIN connector

Physical

- 1/2 U Chassis (H x W x D): 1.72 in. x 8.5 in. x 8 in. 4.37 cm x 21.59 cm x 20.32 cm
- Weight: 6.7 lb. (shipping)



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