



**RJM & Associates, LLC**  
Broadcast Solutions

## Data Sheet

### ADC-24

### Analog to Digital Audio Converter



*The power supply is sold separately*

#### Key Features

- 24-bit precision
- 48kHz internal reference
- AES BNC reference input between 30kHz and 50kHz
- Selectable Status Bits
- Switchable High Pass Filter
- LED level indicators for normal and overload conditions
- Always digital outputs
- Adjustable input range (-10 to +6dBu at -20dBFS)
- Compact size: 5.2"W x 1.62"H x 6.625"D (15.2 x 4.1 x 16.8 cm) less connectors

High quality. Versatility. That's what you expect from **RJM and Associates**. That's what you get with SoundPals ADC-24. The unit may be rack-mounted in the studio or battery operated in the field. The ADC-24 offers precision 24-bit signal processing, simultaneous XLR (AES3) and BNC (AES3id) outputs, with internal 48 kHz reference and external AES3id reference (30kHz to 50kHz) with LED indicator.

Includes internal dipswitch for setting the most significant status bit functions, and internal jumper to set High Pass filter to remove D.C. offset. Independent input level adjustments provided with LED level indicators. The SoundPals ADC-24 is the price-performance leader.

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**Technical Data**

Input impedance	> 15kΩ
Gain range	-10dBu to +6dBu for -20dBFS output
Frequency response	+0/-0.1dB, 20Hz-20kHz
THD + N @ -20dBFS	-91dB, 20Hz-20kHz
THD + N @ -1dBFS	-84dB, 20Hz-20kHz
Dynamic Range:	96dB
Crosstalk	<-84dB, 20Hz- 20kHz
CMRR	>60dB, 20Hz- 10kHz
Digital output resolution	24 Bit
Sample rate	30kHz to 50kHz
Power:	300mA @ 6Vdc

**Options**

RT-2	1RU rack tray for mounting up to 3 units, with power supply
PSU-1	90-260V 50/60Hz power supply, with detachable IEC power cord

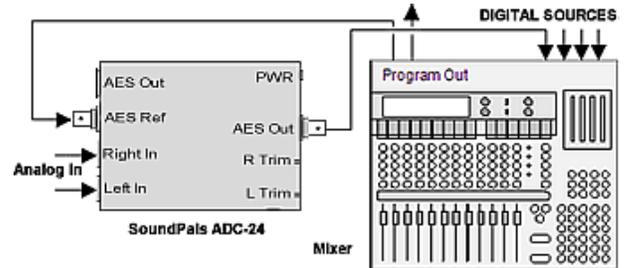


**Inputs & Outputs**

One digital AES on XLR, and one DATS on BNC connectors.  
Two line-level on XLR connectors.

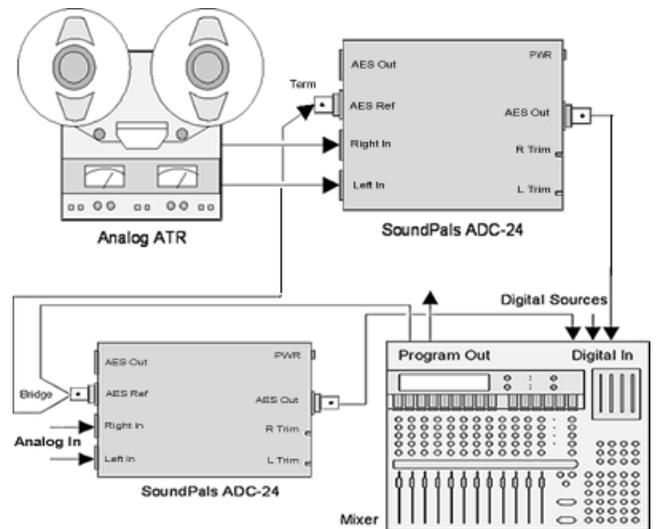
**Application Diagrams**

There are many uses for SoundPals in music recording, radio or television broadcasting, DVD/CD/CR-ROM mastering, and video production and post-production.



**ADC-24 Used Independently**

In this application, the ADC-24 converts analog audio from an ATR or any other analog audio device into AES audio. This is input to the mixing console. Note how one of the mixer's digital outputs is used to synchronize the ADC-24 via the AES REF BNC connector. While the illustration shows unbalanced AES output from the BNC connector, either or both of the two outputs, one balanced, the other unbalanced, can be used



**ADC-24 Used in Combination with Other SoundPals**

In this application, ADC-24 and DMIC-24 SoundPals are combined to provide multiple analog inputs to the mixer. An analog ATR feeds one ADC-24. Another analog signal from any device feeds another ADC-24. One of the mixer's outputs is used to synchronize all of the SoundPals via bridging AES connections. The topmost ADC-24 terminates this sequence.

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