## Data Sheet

### SoundPals ASDM-4
#### Auto-Sensing HD/SD SDI to AES Audio De-embedder



.
*The power supply is sold separately.*

### Key Features

- Active looping input
- 4 AES pairs (8 channels) output
- 2 channel headphone output with independent volume control

- AES/EBU group and channel selectors
- Compact size:  5.2"W x 1.62"H x  6.625"D
  (15.2 x 4.1 x 16.8 cm) less connectors

**The ASDM-4 Audio de-embedder** offers an economic yet versatile means of ingesting the various digital TV standards and de-embedding the four AES pairs (8 channels) of audio.

The unit auto-senses the video format (HD or SD/ SDI) that is applied to the looping input.

All four AES3 (2 channels each) are available on Phoenix connectors at the rear of the unit. Four AES3id (BNC) outputs are also available at the same time. Provision is made for two-channel headphone monitoring along with embedded group and channel selection.

Like all of the SoundPals line, the ASDM-4 de-embedder is housed in a compact, rugged aluminum enclosure.

![RJM & Associates - Broadcast Solutions]

# ASDM-4
## Auto-sensing HD/SD SDI to
## AES Audio De-embedder

| Technical Data | |
|---|---|
| **Video Input** | |
| Video with embedded audio | SMPTE 259M / SMPTE 292M |
| Impedance | 75Ω |
| Amplitude | 800mV ± 10% |
| Equalization | >300M Belden 1694A @ 270 Mbps<br>>100M Belden 1694A @ 1.485 Gbps |
| Input Return Loss | <15 dB |
| Data Rate | 270 MBPS, 1.485Gbps or 1.485/1.001 Gbps |
| Embedded Format | SMPTE 272M / SMPTE 299M |
| Video Formats | 1125/60, 1080i, 1080p (except 1080p 50/60),  720p, 525/59.94, 625/50 |
| Standards | SMPTE 260M, 274M, 295M, 296M, 259M, 125M |
| **AES Audio** | **AES Digital Out** |
| Sample Rate | 48KHz Synchronous to Video |
| Resolution | 24 bits before D to A conversion |
| AES3 balanced output on Phoenix connectors | 110Ω, 3 to 4 volts p-p |
| AES3id unbalanced output on BNC connectors | 75Ω, 1 volt p-p |
| Status Bits | All C, U and V Status Bits present on inputs are passed to the AES outputs |
| **Analog Headphone Out** | |
| Min Load | 20Ω |
| Dynamic range | >91dB |
| **Options** | |
| RT-2 | 1RU rack tray for mounting up to 3 units, with power supply |
| PSU-1 | 90-260V 50/60Hz in-line power supply, with detachable IEC power cord |

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## Application Diagram

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



INNOVATION 16x16 HD-SDI Routing Switcher (Digital)
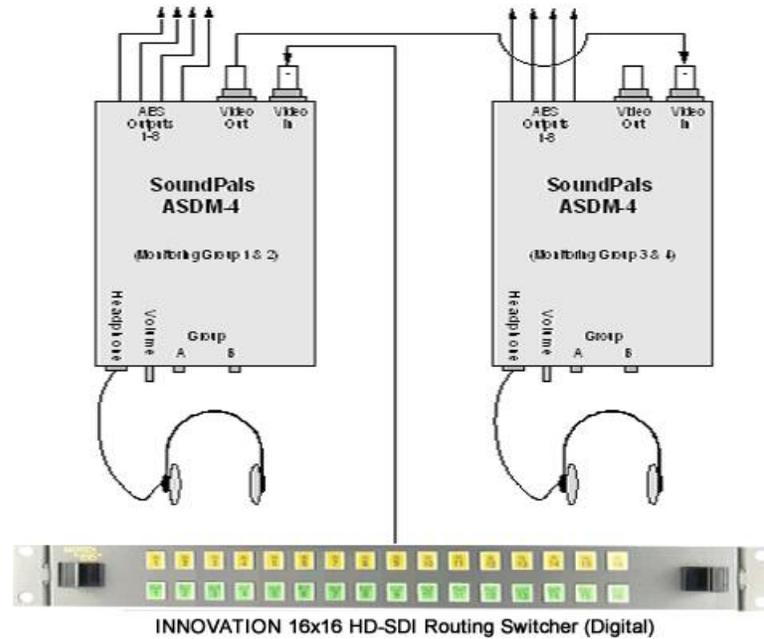
In this application, the INNOVATION HD/SDI routing switcher is fed the first ASDM-4 SoundPal, which is selected to monitor Group 1 & 2.  These four AES data streams are then fed to an audio mixer AES inputs.  The video signal is then fed from the active video output connector to the second ASDM-4 SoundPal, which is selecte to monitor Group 3 & 4.  These four AES data streams are also fed the mixer AES inputs, making all 16 channels of embedded audio o the signal path available for mixing.  Both ASDM-4 SoundPals have a set of headphones connected to them, making it easy for the operator to monitor any stereo pair of the four groups.



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