

# SRS CSD-07D

## Digital Circle Surround Decoder



- A high performance, 6.1 channel AES/EBU digital matrix decoder for use in professional studio production, mastering and broadcast environments
- Highly adaptable tool includes serial port for easy-to-update future enhancements, AES Pair 1 and AES 11 sync source compliant, and convenient software remote control
  - 16-bit, 44.1kHz and 48kHz operation
  - The perfect companion to the SRS CSE-07D for monitoring of Circle Surround encoded material



Our first decoder was analog. The SRS CSD-07 analog Circle Surround decoder changed the face of surround broadcasting. While the analog decoder met the demands of ESPN and Paramount TV for thousands of broadcasts, digital studios could not decode in SRS Circle Surround®... until now.

Introducing the SRS CSD-07D Digital Circle Surround Reference Decoder. It is the first professional, all digital 6.1 matrix decoder designed for monitoring audio, video and multimedia programs encoded with Circle Surround (CS) and other matrix encoding systems.

Intended for use in a professional production environment, the CSD-07D is DSP based and uses the most advanced components currently available. It also provides full bandwidth stereo surround channels and advanced multi-band, variable time constant steering.

#### Front panel features:

- Input/output signal presence/clip indicators
- Center channel mode selector (Center or Phantom)
- Selectable Lt-Rt surround decode mode (LCRS or Circle Surround)
- Monitor switch for monitoring in Mono, Stereo, Lt-Rt or Test Tone
- Sync Source selector (AES Pair 1 or AES 11 Clock)
- Sample Rate and lock indicators (48kHz or 44.1kHz)

The test mode of the CSD-07D provides a 6.1 channel noise sequence with the ability to pause on any channel and resume the sequence from the paused position.

The CSD-07D is designed to seamlessly interface with balance AES/EBU inputs and outputs. External transformers and BNC adaptors may be used to provide an unbalanced interface.

Three monitoring modes are provided; Lt-Rt, Stereo, and Mono. In Lt-Rt mode, the system functions either as a full Circle Surround 6.1 channel decoder or as an LCRS decoder. In Stereo mode, the decoder is bypassed and the incoming Lt-Rt signal is fed directly to the front L and R outputs. In Mono mode, the incoming Lt-Rt is mixed to Mono and presented as identical information on the front L and R outputs. The Stereo and Mono monitor modes are designed to permit the mixer to quickly verify stereo and mono compatibility of the encoded Lt-Rt transmission signal. The LCRS mode enables monitoring of compatibility with earlier matrix decoders.

The SRS CSD-07D is the perfect compliment to the SRS CSE-07D Digital Encoder, offering Circle Surround decoding, LCRS, Mono and Stereo monitoring in a fully digital environment.

## Front View



## Back View



## CSD-07D Specifications

### Frequency Response

20hz – 20Khz +/- .5 db

### Inputs

1 balanced XLR, input per AES/EBU standards

### Outputs

4 balanced XLR's outputs per AES/EBU standards

### Processing

SRS – Circle Surround II decoding algorithm with multiband steering on ADI SHARC DSP

### Sampling Rates

44.1Khz or 48Khz sampling rate locked to input sync source

### Front Panel Indicators

- Input Signal Presence @ -25 dBu (1 LED per channel); clip indicator @ +24 dBu
- Output Signal Presence (1 LEDs per channel) Sync Source
- Center Mode
- Monitor Mode
- Lt/Rt Mode

### Power Requirements/Consumption

120 VAC, 60 Hz, 8 W

### Dimensions

Rack mount; 1ru (1.75" x 10" x 10.25")

### Weight

5 lbs. 6 oz.

### Optional Equipment

SRS CSD-07 or CSD-07DDecoder for monitoring



Specifications subject to change without notice

**SRS** (O)  
**Circle Surround**