

SRS CSD-07

Circle Surround Reference Decoder



- A high performance, 6.1 multichannel decoder for use in professional studio production, mastering and broadcast environments.
- The perfect companion to the SRS CSE-07 for monitoring of Circle Surround encoded audio material.
- Versatile and flexible tool that extracts immersive 6.1 audio from mono, stereo, LCRS and Circle Surround encoded content.



The SRS CSD-07 Circle Surround® Reference Decoder is the first professional 6.1 matrix decoder designed for monitoring audio, video, and multimedia programs encoded with Circle Surround (CS) and other matrix-encoding systems. Unlike previous matrix decoders the CSD-07 provides full bandwidth stereo surround channels and advanced multi-band, variable time constant steering

The CSD-07 is intended for highly accurate monitoring of matrix-encoded material in a professional production environment. Since the CSD-07 is DSP based and uses the most advanced A/D and D/A converters currently available, highly stable operation is assured without the need for calibration or alignment.

The front panel features include input/output signal presence/clip indicators, a center mode selector, a decode/test mode selector, output trim pots with a range of 0 dB to $-\infty$ dB and post process functions to permit monitoring using the same post processing functions available on consumer Circle Surround II decoders.

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

Designed to interface easily with professional audio production equipment, the CSD-07 boasts an extremely wide dynamic range with a full 24 dB of headroom above +4 dBu and a noise floor below -115 dBu. Fail safe bypass is provided to directly connect the Lt/Rt inputs to the Left and Right output channels in the event of a power loss or system failure.

The SRS CSD-07 Decoder provides three monitoring modes; Lt/Rt, Stereo and Mono. In Lt/Rt mode the system functions as a full Circle Surround 6.1 channel 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 Left and Right 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 SRS CSD-07 is the perfect complement to the SRS CSE-07 Encoder, offering Circle Surround decoding and features two proprietary SRS technologies – SRS Dialog Clarity™ and SRS TruBass®.

Front View



Back View



CSD-07 Specifications

Frequency Response

20 Hz – 20 kHz +/- 1 dB (L, C, R, LS, CS, RS); 20 Hz to 80 Hz (LFE)

Dynamic Range

Greater than 140 dB typical (A-weighted)

Distortion (THD)

Less than .005% THD typical (A-weighted) at max level

Inputs

2 balanced XLRs (Pin 2 "hot" per AES Standards); +4 dBu nominal input level; +24 dBu maximum input level

Input Impedance

20k ohms

Outputs

7 balanced XLRs (Pin 2 "hot" per AES Standards); +4 dBu nominal output level; +24 dBu maximum output level

Output Impedance

150 ohms

A-D Conversion

24 bits

D-A Conversion

24 bits

Processing

SRS – CSII encoding Algorithm with multi-band steering on ADI SHARC DSP

Sample frequency

Fixed at 48 kHz

Decoding Latency

8.2 ms

Front Panel Indicators

- Power
- Input signal presence @ -25 dBu (1 LED/channel); Clip indicator @ +22 dBu (actual clip @ +24 dBu)
- Output signal presence @ -25 dBu (1 LED/channel); Clip indicator @ +22 dBu (actual clip @ +24 dBu)
- Center mode selector (Discrete/Phantom) & status LEDs
- Decode mode selector (Mono/Stereo/Lt/Rt/Test) & status LEDs
- Post Process switch & status LED
- TruBass front switch & status LED
- TruBass LFE switch & status LED
- TruBass level
- Dialog enhancement switch & status LED
- Dialog enhancement level
- Output trim pots (1/channel from 0 dB to -∞ dB)

Power Requirements/Consumption

Manual switching 120/220 VAC, 60/50 Hz, 25 W

Dimensions

Rack mount; 1ru (1.75" x 19" x 12")

Weight

8 lbs. 0 oz.

Specifications subject to change without notice



SRS Technologies Supported

SRS 
Circle Surround

SRS 
Circle Surround II

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