



DSF-3

Digital Surround Processor | DSF-3 Remote App



The DSF-3 is a digital surround processor designed to decode the digital SoundField B-Format signals generated by the DSF-1 and DSF-2 systems simultaneously into digital 5.1 surround sound and stereo at any incoming sample rate. Four 5 segment LED displays on the left side of the front panel act as input level meters, and each 5.1 channel's output level control has separate green 'signal present' and red Clip LEDs for further peace of mind. Controls on the front panel of the DSF-3 allow a degree of freedom to alter the audio being decoded that only a SoundField system can offer: there are separate output level controls for each of the six channels in the 5.1 signal (Left, Centre, Right, Left Surround, Right Surround and the LFE channel), and further rotary switches and buttons allow users to alter the pickup pattern and orientation of the microphone without physically handling it. The front and rear width of the 5.1 pickup pattern may be continuously altered with two more rotary controls, and a Focus control allows the user to vary the localisation characteristics of the soundfield image. The entire 5.1 soundfield can even be rotated through 360 degrees by means of a rotary encoder with a live front-panel readout in degrees. This last control also affects the independent stereo soundfield, for which separate front-panel controls are offered to adjust the stereo polar patterns and perceived stereo width.

MAIN FEATURES

- Offers fully digital surround sound production chain when used with DSF-1 or DSF-2 systems
- Five segment SoundField B-Format LED input level meters • Switchable End Fire and Invert mic orientation
- Individual Left, Centre, Right, Left Surround, Right Surround, LFE output level controls
- 5.1 parameters - Rotate, Front Width, Rear Width, Focus, Polar Patterns
- Simultaneous surround / stereo outputs on broadcast standard AES3 BNC connectors
- Word clock in / out • Optical ADAT 5.1 surround/stereo output

Separate rear-panel outputs are provided for broadcasters for each of the five main channels and the LFE channel in AES3 format on 75Ω BNC connectors, and the B-format inputs to the decoder are on the same connectors. An additional rear-panel BNC provides the separate Left/Right Stereo output, which can also be used for Mid & Side signals. The six surround channels and the independent stereo channels are simultaneously sent out via a single digital ADAT lightpipe connector for those users with compatible equipment. Word clock inputs and outputs, and a USB port for software control (see *DSF-3 Remote App* below) complete the rear panel.

DSF-3 REMOTE APP - FREE ADD-ON FOR ALL CURRENT/FUTURE DSF-3 USERS



The new DSF-3 Remote App allows remote control of all DSF-3 parameters via a PC and provides further advanced features which cannot be accessed by front panel controls.

- Snap/Tilt - enables the axis of the front and rear surround pickup to be independently 'tilted' to focus on sound sources closer/further from microphone.
- Variable polar patterns - front and rear
- Variable delay for rear channels
- Memory presets for individual venues
- Full 5.1 bargraph metering
- Zoom control
- Instant visual representation of array and parameters