



DSF-1

Digital Performance Microphone System



The DSF-1 is a digital surround microphone system aimed at the discerning concert venue broadcast and recording markets, ideal for capturing classical performances in both stereo and high-quality surround.

The DSF-1 system, which comprises a SoundField microphone and hardware digital control unit, benefits from much of the techniques employed in the established DSF-2 digital broadcast system, but with various changes to reshape it for the performance and recording markets. The output signals are all 110Ω AES-EBU on XLRs, the digital format more common in the recording and concert broadcast markets, instead of the BNC connectors employed on the DSF-2.

In addition to standard 48/96/192kHz sample rates, the DSF-1 can also handle audio at the CD mastering standard of 44.1kHz, as well as 88.2kHz and 176.4kHz. Both word clock input and output are provided as standard. The DSF-1 also offers all of the features of the established DSF-2, including the ability to change the pickup pattern, output the results in mono, stereo, Mid & Side or surround sound, and to Rotate, End Fire or Invert the mic without physically handling it. The DSF-1 is perfect for capturing performances by artists of international standing in world-class concert venues, whether for broadcast or release on disc.

Features

- Circular LED Input level bargraph (up to 40dB) in 3dB steps
- Switchable fixed threshold Limiter to prevent 'digital overload'
- End Fire - maintains correct 3D perspective in surround & stereo when mic is horizontal
- Invert - maintains correct 3D perspective in surround & stereo when mic is suspended upside down
- Switchable 26 segment B-Format / Stereo bargraphs 0 to -37.5dBfs range
- Rotate - offers 360° mic rotation with switchable Coarse (10° steps) and Fine (1° steps) mode
- Switchable 40Hz or 80Hz Hi-pass filter with status LED
- Mid/Side - switches stereo outputs from Left/Right to M/S
- Variable Polar Pattern and Angle (width) for stereo output
- Sample rate selector: 44.1K, 48K, 88.2K, 96K, 176.4K, 192K and External Clock
- Stereo headphone monitoring section with level control
- Power/Status LED