



JDS2 OSS Optimal Stereo Signal recording microphone



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SAFETY INSTRUCTIONS

- Terminals can carry electrical current of sufficient magnitude to constitute electrical shock
- Only use authorized or original accessories
- Refer all servicing to qualified personnel
- It can be necessary to open the product in order to change internal settings or internal cabling. In such case, at first remove all plugs or other coupling connections from their power source.

LEGAL DISCLAIMER

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INTRODUCTION

The STI microphone type JDS2 is designed for **Optimal Stereo Signal (OSS)** recording. Like the 'Jecklin Disc' the use of the JDS2 is to obtain perfect image depth with binaural recording. The JDS2 uses the benefit of the 'boundary microphone' principle to guaranty clear sound pick up, *without phase errors*. Very small electret microphone capsules are placed in the centre of two 33cm circular discs, made of plexi-glass. The discs are backwards attached to each other and vertically positioned on the microphone stand, to cover the left and right area for stereo recording with the possibility of recording close to the orchestra. Because Omni-directional pressure microphones are used, we get a clear sound and wide frequency range.

When the special JDS2-W, with wide-band microphone capsules, is used, the JDS2 can even capture the ultrasonic sound domain of a pipe organ with ultrasonic frequencys. This makes the JDS2 suitable for SACD recording also. Using the JDS2 in a live room it is also the perfect mike, for capturing early reflections on seperated tracks of the multi-track recorder and according to the 'Haas' effect, less artificial reverberation is needed, which result in a better recognition of the original instrument placement in the recording.



CONNECTIONS:

A 5-pole mini XLR male connector is mounted, in the microphones stand holder and the JDS2 comes with an Y-adapter cable, splitting the 5-pole mini XLR into two standard XLR3 Male connectors, for both the Left and Right balanced output of the stereo microphone. The microphone must be fed by means of Phantom power. The Phantom adapter and balancing network are placed on a printed circuit board in the microphone stand holder.

SELECTION OF MICROPHONE CAPSULES USED

- JDS2-S2 Sennheiser type MKE-2 (standard version)
- JDS2-B DPA-4060 (Bruel & Kjaer)
- JDS2-W Primo type (> 40kHz)

TECHNICAL SPECIFICATIONS:

Phantom power:	12 – 48 Vdc	Y-adapter cable length:	± 50cm
Frequency characteristics	See Manufacturers specifications	Microphone connector JDS2:	5-pole Mini XLR male
Sennheiser capsules ME2 Sensitivity Equivalent noise level Max. SPL, peak beforeclipping Output impedance	30 Hz.....20 kHz 20 mV/Pa 36 dB	Split microphone connectors: (Y-cable)	XLR3 In-line male plugs
DPA capsules DPA-4060 Sensitivity (0dB = 1V/Pa) Equivalent noise level ¹ Equivalent noise level ² Max. SPL, peak beforeclipping Output impedance	<20 Hz.....>20 kHz -34 dB 20 mV/Pa 23 dBA 35 dB 134 dB 30 – 40 Ω		
Primo EM173 Sensitivity (0dB = 1V/Pa) S/N Ratio Max. SPL, peak beforeclipping Output impedance	60 Hz - ± 20kHz -37 dB 14 mV/Pa 80 dB typ. 135 dB 600Ω		

¹ ITU-R BS.468-4

² A-Weighted, re. 20μPa