

## A-DI 07SW Product Information Sheet



The ADESIGN Active Direct Interface Box A-DI 07SW has been designed for recording and sound reinforcement of medium to high level transducers as used with various musical instruments. The A-DI 07SW is characterised by a very transparent sound quality, a low noise level (often even lower than the self-noise of the connected transducer), and a maximum signal level which is similar to the level that can be produced by active circuitry fed by two 9 Volt batteries. The instrument can be muted with a footswitch. A bi-colour LED shows ON or OFF.

The gain of the A-DI 07SW is set to -12dB, which means that the average acoustic guitar or double bass will yield about as much signal as a vocal microphone. In a live sound reinforcement situation, a delicate jazz bass can be handled, as well as a hot preamplified electric bass.

A low-output electric piano can be amplified with low noise, while an electronic keyboard will not overload the input.

A “real time” circuit is used, in a “totem pole” configuration, as can be found in true condenser microphones. The input FET is selected for low noise and a suitable operating point, and the output transistors are carefully matched.

The input jacks are linked by low value series resistors. The jacks can be used to link to an amplifier, but they also accept a stereo source (which will be mixed to mono).

Input Impedance	1M $\Omega$ //100pF
Wideband Input Noise Voltage	2 $\mu$ V (-112dBu)
Equivalent Input Noise Impedance *)	15K $\Omega$
Maximum Input Level	6V eff. (+18dBu)
Gain	-12dB
Output Impedance	150 $\Omega$
Frequency Response (-3dB)	5Hz - 150KHz
Power Supply	48V Phantom, 6mA Current Draw

\*) If the transducer has a source impedance higher than this value, it's noise contribution will be dominant over that of the A-DI 07SW.