SpectraDAQ-200

SpectraDAQ-200 is a precision data acquisition sound card optimized for test and measurement applications. Designed specifically for use with SpectraPLUS it features fixed gain steps for easy calibration to the transducer sensitivity, IEPE power for accelerometers or microphones, and standard BNC connectors. It is housed in a rugged steel case and powered by USB 3.0.

Excellent Performance

The A/D and D/A converters are state of the art and provide incredible dynamic range and extremely low distortion.

Direct Calibration

The input channels provide 4 fixed gain steps. This allows SpectraPLUS to be calibrated directly to volts, millivolts or to the transducer sensitivity providing quick and accurate calibration for microphones, accelerometers and other sensors.

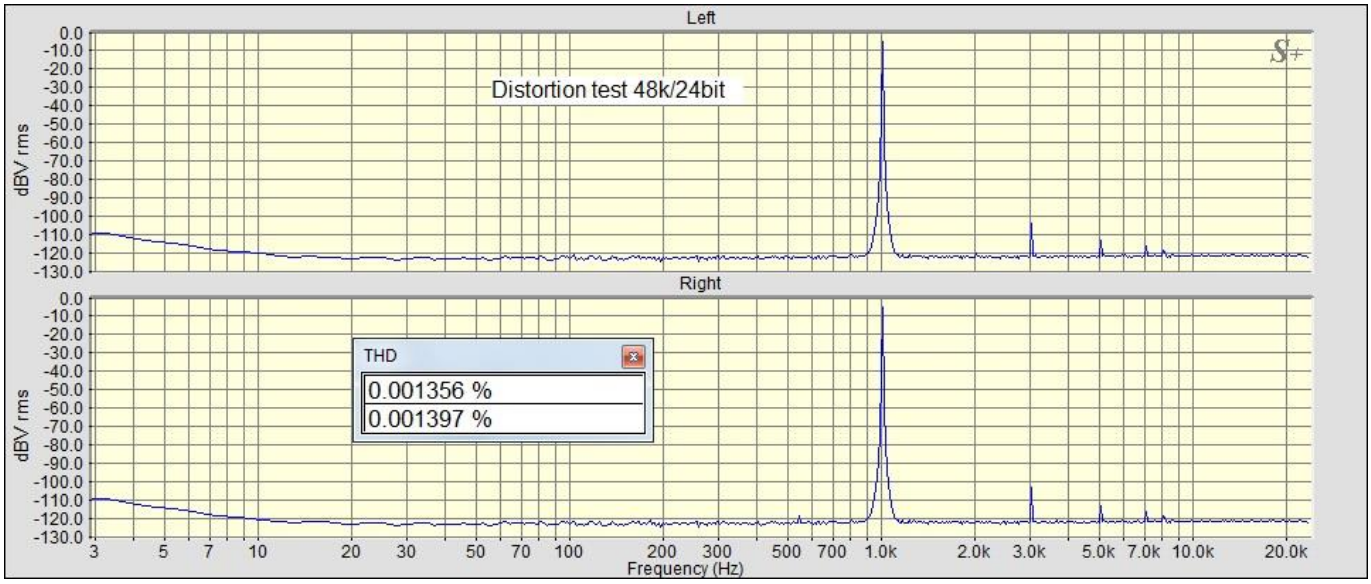
IEPE Power

Accelerometers, microphones and hydrophones often use IEPE powered sensors; IEPE power is a 4ma constant current supply that is built-in to the input circuitry of the module. It is enabled via the SpectraPLUS software. IEPE is also known as ICP (trademarked by PCB electronics).

Input Voltage Ranges (software selectable)	+/-10V, +/-2.5, +/-625mV, +/-156mV
Sampling Rate	Up to 192kHz
Sampling Precision	24 bit
Input Channels	2
Input Impedance	0.5 Meg Ohm
IEPE power (software selectable)	4ma constant current
Frequency Response	4 Hz to 92 kHz (-1dB)
Low Frequency cutoff	2 Hz (-3dB)
Total Harmonic Distortion (THD)	< 0.002% (0.5 Vrms signal level, 2.5 V gain)
Spurious Free Dynamic Range	> 95 dB
Noise Floor (terminated inputs)	< -130 dBVrms
Channel Separation	> 90 dB
Input Connectors	2 BNC (single ended)
Output Voltage	+/-1.4 V (1 Vrms)
Output Channels	2
Output Connectors	1 BNC, 3.5 mm stereo
Digital I/O	3 Input, 3 Output (RJ45 connectors)
Drivers (Vista/Win7/8/10, x32 and x64)	MME (Windows Multimedia Extensions) ASIO (Steinberg Audio Stream Input/Output)
PC Interface	USB 3.0 (cable included)
Operating Temperature range	0 to 50 C
Dimensions	5.5 x 3 x 1 in (140 x 77 x 26 mm)
Weight	9 oz (250 grams)
Warranty	I year

Pricing, availability and specifications are subject to change without notice

Distortion measurement with the output looped back to the inputs



Noise floor measured with terminated inputs