



For Immediate Release

iWorx Introduces High Resolution Data Acquisition System for Small Animal Research

Dover, NH, March 22, 2010 – [iWorx](#), a developer of advanced physiology research and teaching tools, has introduced the IX-228S Data Acquisition System for small animal [cardiovascular research](#), [Oocyte clamp](#) and high end [metabolic research](#) applications. The high resolution, low noise system uses a 16-bit A/D converter to sample data over its full input range of $\pm 10V$ at speeds up to 100 kHz. The low noise greatly reduces the need for gain and offset.

The [IX-228S](#) has 10 input channels and both a low voltage and a high voltage stimulator output. Channels 1 and 2 can be configured for isolated recording of biopotentials or as DC coupled inputs. Channels 3 through 10 each include a transducer amplifier with a wide selection of low pass and high pass filters. In addition, the two channel configuration of the bioamplifier allows simultaneous recording of any combination of ECG, EMG or EEG signals.



The iWorx 228S includes a 150 volt compliant isolated stimulator with an amplitude range of 0 to 20 milliamps. This stimulator is suitable for applications ranging from human striated muscle studies to pacing a rodent's heart during pressure-volume loop recording. The system also includes a software programmable 16 bit low voltage ($\pm 10V$) stimulator (DAC). Stimulator parameters, such as pulse width, frequency and amplitude, may be changed "on-the-fly." Standard protocols include Pulse, Train, Step, Triangle and Ramp. Eight digital outputs are available to control devices such as pumps and valves. Programming the output lines is point-and-click easy, with no complicated scripting language required.

The iWorx 228S is controlled by [LabScribe2™ software](#), a powerful recording and analysis software package. LabScribe2 has an intuitive, user-friendly interface for setting up acquisition screens, calibrating signals and analyzing data. Up to 128 channels of data can be displayed simultaneously at sampling rates as high as 100,000 samples/second.

A comprehensive set of analysis routines have been pre-configured making data analysis and interpretation quick and easy. Specific analysis modules for cardiovascular research are available to analyze [pressure signals](#), [blood flow data](#), [ECG recordings](#), ventricular [pressure-volume loops](#) and [sonomicrometry](#) dimension data.

For more information, contact iWorx Systems, Inc., One Washington Street, Suite 404, Dover, NH 03820 (T) (800) 234-1757, (F) (603) 742-2455, billm@iworx.com.

About iWorx

iWorx advanced research solutions include high performance recording hardware, software, and components that accelerate metabolic, cardiovascular, neuromuscular and respiratory physiology research. In addition to data acquisition systems, iWorx offers a full selection of signal conditioners, stimulators, transducers, electrodes, cables, and general-purpose laboratory equipment and accessories.

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