

iWire Recording Modules

Technical Note

Overview

iWorx has developed a proprietary serial interface technology called iWire. iWire devices enable unparalleled expansion of your laboratory recording equipment by simply connecting an iWire device to a compatible iWorx data recorder. The IX-TA-220 can simultaneously record from up to two iWire devices and the IX-RA-834 can simultaneously record from up to four iWire devices.



IWIRE-B3G

The IWIRE-B3G is furnished with the iWorx TA Recording Module (IX-TA-220). It allows the recording of up to three channels of ECG, EMG or EEG data as well as one channel of GSR (skin conductance) data from a single iWire input on the data recorder. A traditional data recorder would require four additional recording channels to accomplish this.



IWIRE-BIO4

The IWIRE-BIO4 adds four biopotential channels for recording ECG, EMG or EEG data. A traditional data recorder would require four additional recording channels to accomplish this.



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IWIRE-BIO8

The IWIRE-BIO8 adds eight biopotential channels for recording ECG, EMG or EEG data. A traditional data recorder would require eight additional recording channels to accomplish this.



IWIRE-ECG12

The IWIRE-ECG12 allows you to record 12 ECG leads. A traditional data recorder would require 12 additional recording channels to accomplish this. A dedicated settings file, iWire-12LeadECG, can be found in the Human Heart folder in LabScribe's Settings menu.

How to Use the iWire and USB Recording Modules

Simply connect the iWire device to one of the iWire connectors on the front of the IX-TA-220 or the IX-RA-834 before opening LabScribe.



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Technical Data and Specifications

SPECIFICATIONS	
Analog Inputs	B3G: 1 GSR (skin conductance), 3 Biopotential BIO4: 4 Biopotential BIO8: 8 Biopotential ECG12: 10 Electrodes: RA,LA,RL,LL,V1,V2,V3,V4,V5
Input Range	2400mV, 1200mV, 800mV, 400mV, 200mV, 100mV, 50mV, 25mV, 12mV
A/D Converter	
Sampling Speed	20k Samples/sec per channel simultaneous
Resolution	16 Bit
Interface	iWire
General	
Enclosure	Plastic Dimensions: 9 cm x 5 cm x 3 cm
Power	iWire
Warranty	Protected by a 3 year warranty



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