IX-B3G, IX-BIO4, IX-BIO8, and IX-ECG12 USB Recorders

Technical Note

iWorx Systems, Inc.

www.iworx.com

Overview

iWorx offers data recorders that can be connected directly to a USB port of a Windows, Mac OSX, or Linux personal computer. LabScribe will recognize this interface and the recorders can be used without another data acquisition device. They are sold with both electrode leads and the necessary cables for connection to your computer.

IX-B3G

The IX-B3G connects directly to a computer's USB port and allows the recording of up to three channels of ECG, EMG or EEG data as well as one channel of GSR (skin conductance) data. The IX-B3G can be used with preconfigured LabScribe experiments or in user-designed experiments.

IX-BIO4

The IX-BIO4 connects directly to a computer's USB port and provides four biopotential channels for recording ECG, EMG or EEG data. The IX-BIO4 can be used with preconfigured LabScribe experiments or in user-designed experiments.

IX-BIO8

The IX-BIO8 connects directly to a computer's USB port and adds eight biopotential channels for recording ECG, EMG or EEG data The IX-BIO8 can be used with preconfigured LabScribe experiments or in user-designed experiments.

IX-ECG12

The IX-ECG12 connects directly to a computer's USB port and allows you to record 12 ECG leads. A dedicated settings file, IXECG12-12LeadECG, can be found in the Human Heart folder in LabScribe's Settings menu.

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How to Use the USB Recording Modules

1) Connect the recorder to a computer's USB port, before opening LabScribe.

2) Click on the LabScribe shortcut on the computer's desktop to open the program. If a shortcut is not available, click on the Windows Start menu, move the cursor to All Programs and then to the listing for iWorx. Select LabScribe from the iWorx submenu. The LabScribe Main window will appear as the program opens. There will be a message indicating that LabScribe has recognized your recorder.

3) On the Main window, pull down the Settings menu and select Load Group.

4) From the Research Settings folder, choose the settings group appropriate to your device. Select this group and click Open.

5) Pull down the Settings menu again. Select the settings file for any of the listed protocols.

6) After a short time, LabScribe will appear on the computer screen as configured by the chosen protocol.

These recorders can be synced (as slave devices) with the IX-TA-220 or an IX-RA-834 data recorders by connecting the master data acquisition unit to the USB recorder's Sync input.

SPECIFICATIONS	
Analog Inputs	IX-B3G: 1 GSR (skin conductance), 3 Biopotential IX-BIO4: 4 Biopotential IX-BIO8: 8 Biopotential IX-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	USB
General	
Enclosure	Plastic Dimensions: 9 cm x 5 cm x 3 cm
Power	USB
Warranty	Protected by a 3 year warranty

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