

Experiment HP-3: The Galvanic Skin Response, Deception, Cognitive Complexity, and Vigilance

Equipment Required

PC or Mac Computer

IXTA, USB cable, IXTA power supply

iWire-B3G GSR amplifier and electrodes

Start the Software

1. Click on LabScribe
2. Click Settings → Human Psychophysiology → GSR-B
3. Once the settings file has been loaded, click the **Experiment** button on the toolbar to open any of the following documents:
 - Appendix
 - Background
 - Labs
 - Setup (opens automatically)

GSR Setup

1. Locate the iWire-B3G galvanic skin response amplifier and GSR electrodes ([Figure HP-3-S1](#)) in the iWorx kit.



Figure HP-3-S1: The iWire-B3G galvanic skin response amplifier.

2. Plug the connector on the iWire-B3G galvanic skin response amplifier into the iWire 1 input of the IXTA ([Figure HP-3-S2](#)).

Note: *Make sure to connect the iWire-B3G to the IXTA prior to turning it on.*

3. Attach the GSR electrodes to the pointer and ring finger of the subject's hand. Make sure the fingers are not too cold or too dry.
 - Subjects can lick their fingers to slightly moisten them and increase conduction.
 - Conductive paste can also be used.
 - Do not use alcohol on the subject's fingertips.

Note – the GSR unit is precalibrated. No other calibration is needed.



Figure HP-3-S2: The iWire-B3G connected to an IWIXTA.