

Experiment HH-5: The Diving Reflex

Equipment Required

PC or Mac Computer

IXTA, USB cable, IXTA power supply

PT-104 Pulse plethysmograph

Three pans, each with 3” of water at 5, 15, or 25°C

iWire-B3G (optional)

RM-204 Respiration monitor (optional)

Pulse Transducer Setup

1. Locate the PT-104 pulse plethysmograph in the iWorx kit.



Figure HH-5-S1: The PT-104 pulse plethysmograph.

2. Plug the DIN8 connector to the PT-104 (plethysmograph) into Channel A5 of the IXTA.
3. Place the plethysmograph on the volar surface (where the fingerprints are located) of the distal segment of the left middle finger or thumb, and wrap the Velcro strap around the end of the finger to attach the unit firmly in place.
4. Instruct the subject to sit quietly.



Figure HH-5-S2: The PT-104 connected to the IXTA.

Optional Experiment/Equipment

Use the Respiration Monitor as shown in the lab.

Use the iWire-B3G cable to record an ECG as well as the pulse and heart rate.