



The BioCapture Research System is a lightweight, handheld and fully configurable wireless system for recording and analyzing physiological data. BioCapture can be used in a wide range of studies and can record any combination of EEG, ECG, respiration, spirometry, oximetry, EMG and more.

BioCapture's flexible research platform makes it the ideal option in human or animal studies for cardiopulmonary research, neuromonitoring research, or other pre-clinical or clinical research.



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Hardware

The BioRadio[®] 150 is a wireless 12-channel monitor designed forviewing and recording any combination of physiological signals. Eight of the channels are fully configurable allowing any physiological signal to be recorded on any channel. The user unit also includes an auxiliary DC input and embedded sensors that can be used to monitor pulse oximetry, pressure based airflow and accelerometry. The wide array of additional transducer options range from nasal oral thermocouples and Piezo-electric respiratory effort belts to hand dynamometers and force plates. Because of the system's wireless and flexible design, the BioCapture system opens up a whole new realm of laboratory opportunities.

System Specifications

Transmission Range: 100 feet line of sight (approx.)*

RF Band:

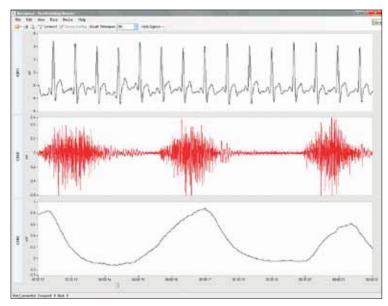
2.4-2.484 GHz ISM Band

User Unit	
Dimensions:	5.25"x 2.5" x 1.1" (not including antenna)
Weight:	210 grams (7.4 oz.) with batteries
Number of Input Channels:	8 configurable channels (external sensors)
	4 embedded channels: accelerometry, pulse oximetry, pressure based airflow and DC auxiliary input
Power:	2 AA alkaline batteries, 10 hours use



Software

The BioCapture system is designed to provide researchers with a flexible platform for conducting physiological studies in a wide variety of application areas. To achieve this, BioCapture is equipped with a convenient software package that provides complete control over hardware configuration, data display, analysis and data management.



Additional Analysis Capabilities:

Data Export Capability

Data can be exported to ASCII format for further analysis in other software packages such as National Instruments LabVIEW[™], MathWorks MATLAB[®] or Microsoft Excel[®].

Software Development Kit

The BioCapture system comes with a Software Development Kit that includes real-time LabVIEW and MATLAB drivers, which allows flexibility in designing custom software around the BioRadio 150.

The untethered technology of the BioRadio opens up a whole new realm of research opportunities by eliminating the restrictions typically encountered with traditional monitoring equipment.

*Transmission distance varies based on the building architecture.

This device is intended for scientific and research purposes only. IRB approval must be obtained before using this device in human testing. BioCapture is a trademark and BioRadio is a registered trademark of

Great Lakes NeuroTech, Cleveland OH.

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