



BioGraph Infiniti Software Physiological Measurements, Basic controls and features of software, Multi-media features, Advantages of windows based software, Resources for help, FAQ's.

Infiniti Hardware Connecting hardware to computer, Connecting sensors to the different encoders: FlexComp Infiniti, ProComp Infiniti, ProComp5, ProComp2, MyoTrac Infiniti; Sensor configuration Slow vs. Fast channels.

The Introduction to BioGraph Infiniti 1-Day Workshop is for clinicians, researchers and other health professionals who want to learn how to use the latest biofeedback technology.

- This course introduces the user to the amazing amount of functionality, power and versatility that the Infiniti platform has to offer.
- The goal of this 1-day workshop is to make beginners feel comfortable using the BioGraph Infiniti software with their hardware and to offer advanced users an overview of the full clinical potential of their systems.
- The participants will get the benefit of a "hands-on" learning experience of this powerful physiological tool.

This 1-day course is a basic and general introduction & software instrumentation training only. Participants are shown how to use different sensors and multimedia biofeedback screens for physiological indicators including Surface *Electromyography (SEMG)*, *Respiration*, *Temperature*, *Skin Conductance*, *Electroencephalography (EEG)*, *Heart Rate and Electrocardiography (EKG)*.

Application Suites: (**NEW:** *Reaction Time, TT-pIR Mini Suite, Cardio Pro Infiniti*), EEG, Physiology, Rehab, DynaMap, Ergonomics, Z-Score Mini Suite: Record and replay modes, Review / Report, Open sessions, Scripted sessions, Flexibility and ease of use, Precision and reliability, Modular design.

Recording a Session Loading screens, Display screens, Selecting and adding client, Client confidentiality feature, Button bar controls, Impedance checking, Zeroing EMG sensors, Display screen / Instruments adjustments, Marking events, Saving recorded data.

Loading and Reviewing Previously Saved Sessions Reviewing open sessions, Report screens, Pop-up menus, Listing of data channels, Button bar controls, Markers, Artifact rejection features, Multi-line graphs, Saving report screen settings for client, Importing clients, Computing and printing statistical reports, Trend reports.

PARTICIPANTS WILL LEARN HOW TO:

- **Identify and briefly describe physiological measurements generally used in biofeedback.**
- **Explain what a virtual data-channel is and how it is related to the raw data from the physical sensor.**
- **Describe when proportional and inverse-proportional feedback should be used.**
- **Define what is artifact and why is artifact rejection necessary.**
- **Demonstrate when an automatic threshold is useful.**

Infiniti Hardware



FlexComp Infiniti, ProComp Infiniti, ProComp5, ProComp2 and MyoTrac Infiniti

Learn more about these 5 powerful encoders:

These data acquisition and physiological monitoring devices offer the ideal research and clinical solution from the FlexComp Infiniti encoder with 10 high-speed channels (2048 samples/sec.) to the ProComp2 encoder, which can be easily worn on a head band or a shirt collar. ProComp 2™ contains a built-in EEG sensor - requiring only an electrode lead for EEG monitoring and biofeedback. All encoders can use and acquire data from any Thought Technology sensor.

Sensors for individuals and groups:

Learn how to use different combinations of Thought Technology's EEG, EMG, EKG, respiration, skin conductance, heart rate/blood volume pulse or temperature sensors for psychophysiological monitoring and training.

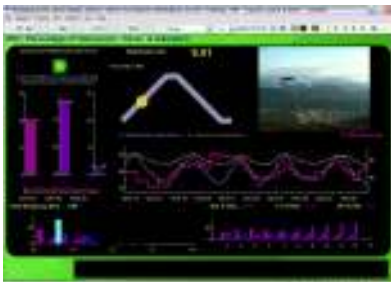
BioGraph Infiniti Software



Powerful data-processing features: With its robust signal acquisition capabilities, accurate artifact rejection functions and flexible statistical analysis engine, the BioGraph Infiniti™ software allows you to easily normalize recorded data and generate reliable data.

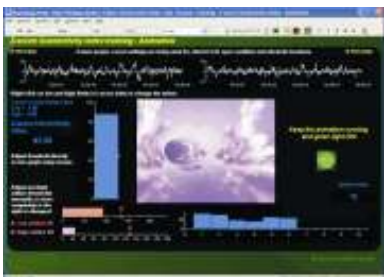
Use state-of-the-art multimedia biofeedback: You will learn how to deliver physiological feedback in many creative ways, to reach a diverse client population.

HEART RATE VARIABILITY (HRV) (NEW)



Within the Physiology Suite, one can identify and understand the basic signal processing steps involved in calculating the time/frequency domain HRV metrics. Identify and understand the physiological signals used for HRV training (EKG, BVP and respiration). Optimize electrode and sensor placement for signal quality and understand the physiology of respiration sinus arrhythmia (RSA) training. Run training sessions using time-domain HRV metrics (HR Max-Min, SDRR & pNN50) and understand the physiology of resonance frequency training. Understand and configure the respiration pacer ; run a resonance frequency assessment session using the breathing pacer. Run training sessions using frequency-domain HRV metrics.

Z-SCORE Mini Suite (NEW)



The Z-Score Mini Suite offers training to use simple indices that report on multiple z-score values simultaneously, modifying them easily or making your own. Measure standard bands of EEG activity at the same time and use Z-score 2 or 4-channel assessment and training screens. Take advantage of the Quick Start set up and get real time Z-score values during a session. Identify the different Z-score graphical settings and learn to modify them, such as changing the settings on the fly; for example, bandwidths, sound feedback and animations. Use the various review and report screens that include efficient graphical representation of session trends with statistical analysis.

REACTION TIME (NEW)



The Reaction Time Suite includes both continuous performance testing (CPT) and real sports reaction time training. The Reaction Time Suite takes standard CPT protocols (single, variable and choice) to the next level by combining reaction time data with time-locked EEG and physiology data, to allow direct linkage of response type to mind and body activity. The suite also includes training capabilities and offers unprecedented accuracy.

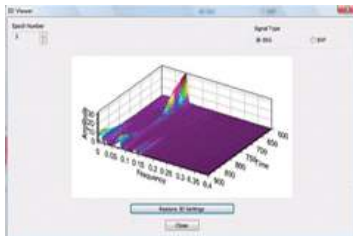
The real sports reaction time protocols are designed for biofeedback training in sports that demand quick reactions to trigger events. It includes screens for baseball, tennis, soccer, track and field, ice hockey and more to train for higher batting averages, better serve returns, more accurate penalty kicks, faster starts, and higher face-off percentages. Features use of push buttons, foot pedals and even raw EMG sensors, to simulate real sports actions by using EMG from muscle contractions to respond to events! Highly accurate, time-locked EEG, physiology and EMG allow in-depth analysis of mind and body activity during sports reaction time training.

TT-pIR Mini Suite (NEW)



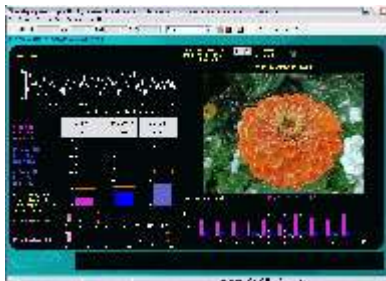
The TT-pIR Mini-Suite is designed to accompany the TT-HEadGear device to offer the basic tools for passive infrared (pIR) monitoring and biofeedback. The suite includes all the tools you need to monitor, train and follow-up on your client's success with frontal pIR training.

CARDIO PRO Infiniti (NEW)



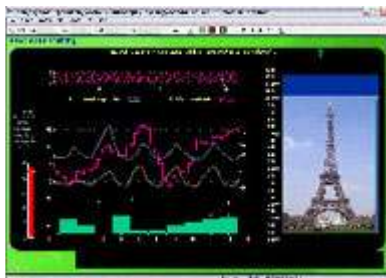
CardioPro Infiniti is a specialized off-line analysis module which brings advanced heart rate variability (HRV) analysis capabilities to the BioGraph Infiniti platform. It complements any physiological biofeedback suite (such as the Physiology suite) by providing sophisticated data analysis methods that were only previously available in very specialized software packages such as Thought Technology's CardioPro software.

EEG Suite



The EEG Suite offers over 80 display screens for many standard EEG protocols, including outstanding alpha-theta training screens and a number of template-style screens for training with 3, 6 or 10 user-defined EEG bands. The standard protocols can be used for training alpha amplitude (range), alpha peak frequency, alpha theta, beta amplitude, SMR amplitude, theta beta, theta SMR and wide band inhibit.

Physiology Suite



The Physiology Suite includes all the tools you need for multi-modality physiological assessments and over 80 display screens for training with standard physiological sensors. Using the Physiology suite, you can train self-regulation with physiological biofeedback protocols that include EMG, relaxation with temperature or skin conductance, heart rate variability with respiration and EKG or BVP and abdominal/thoracic breathing.

CONTINUING EDUCATION ACCREDITATION: This course has been approved by the Biofeedback Certification Institute of America (BCIA) to provide 7-hours of Category A. accredited continuing education for BCIA recertification. These seven hours are divided into 4-hours of General Biofeedback; Orientation to Biofeedback 1-hour, Psychophysiological Recording 1 hour, SEMG Applications 1 hour, EEG Applications 1 hour, and 3-hours of EEG Biofeedback; Orientation to EEG Biofeedback 1-hour, and Instrumentation and Electronics 2-hours.



BioGraph[®] Infiniti Workshops

1-Day Introduction Workshop

COURSE PREREQUISITES: This course is intended for licensed health professionals and participants are encouraged to seek BCIA certification if they are not already certified. As this workshop is a "hands-on" learning experience, you are strongly urged to bring all your equipment with you to the workshop (including laptop with software, encoder and sensors).

WORKSHOP FEES: \$100.00 USD. Course Fee includes all handout materials.

WORKSHOP METHOD OF PAYMENT:

Name and Title:		
Address:		
City:		
State/Province:	Zip:	Country:
Tel:	Fax:	
E-mail:		
Clearly indicate the date(s) and location(s) of selected workshop(s)		
Please fill in the following details and fax to (514) 489-8255 or e-mail to workshops@thoughttechnology.com. Please note that registration is valid only when full payment is received		
VISA <input type="checkbox"/>	Mastercard <input type="checkbox"/>	American Express <input type="checkbox"/>
Credit Card # :	Expiry Date :	
Name on Credit Card :		
Signature of Card Holder :		

CANCELLATION POLICY: Cancellations must be received **in writing** if requested prior to 2 weeks before the course date. You will receive credit towards a future course minus an administration fee of \$50.00 USD. Cancellations after this date forfeit registration fee. TTL reserves the right to cancel the course with full refund.

FOR MORE INFORMATION OR TO REGISTER:

Workshop Coordinator
 Thought Technology Ltd.
 2180 Belgrave Avenue
 Montreal, QC, Canada H4A 2L8
 Tel: (514) 489-8251 Ext.135
 Fax: (514) 489-8255
 E-mail: workshops@thoughttechnology.com
www.thoughttechnology.com

For U.S. Residents:	All Other Countries:
Attention: Workshops	Attention: Workshops
Thought Technology Ltd.	Thought Technology Ltd.
C/O Cimetra, 8396 State Rt. 9	2180 Belgrave Avenue
West Chazy, NY 12992	Montreal, Quebec, Canada
USA	H4A 2L8

PRESENTERS: The following is a list of the outstanding presenters who instruct the 1-day course and will guide you to a better understanding of your instrumentation:

Didier Combatalade, D.C. Didier Combatalade is the Research Manager at Thought Technology. Didier has over 20-years experience in the healthcare industry as a clinician and in software development. Following 7-years of chiropractic experience in both private practice and a large, multidisciplinary clinic, he pursued further training in electronics and computer systems. Didier has developed printed and multimedia materials for user training and is a seasoned instructor who is very easy to follow and knows how to make material interesting. Didier is a regular presenter at the annual conferences of the AAPB, ISNR & BFE.

Frank DeGregorio, Frank DeGregorio has a Diplome d'Etuded Collegiale (DEC) in Computer Science and Certification in Networking. He has over a decade of experience as technical, network, computer and product support for Thought Technology. Frank does high-level trouble-shooting, and has over 5-years of experience teaching BioGraph workshops with Lynda Thompson, Ph.D. Frank's extensive knowledge of all the product software and hardware offered by Thought Technology gives him the unique ability to take participants from installation of the software to using it effectively.

Mark Schwartz, BSc. Hons, MBA. Mark Schwartz is a project manager with the Biofeedback Foundation of Europe responsible for research and education projects linking European researchers and clinicians with their counterparts in North America. He has over 10-years of experience in biofeedback projects and for the last 3-years has taught workshops in Europe and North America on the use of biofeedback instrumentation. He recently became involved in online education. His BSc. Hons is in Psychology from Manchester University, England. His MBA is from Laval University in Quebec.

Shawn Tian, B.A. MBA. Shawn has 3-years of experience in technical sales to Asian markets, software development, technical support and teaching with Thought Technology. Shawn has taught workshops in South Africa, Australia, the United States, China, Hong Kong, and Thailand. He also instructed workshops with Steve Sideroff, Ph.D, in Indonesia. Shawn is also involved in the development of clinical software suites with Sue Wilson, Ph.D, Howard Glazer, Ph.D., Stu Donaldson, MD, and Don Moss, Ph.D. and others. He has an MBA from Western University in Ontario, Canada and a Bachelors Degree from Shanghai Fudan University in China.