

Table 1
Commercially Available Hardware and Software for Psychophysiology Applications

FROM

Curtin, J.J., Lozano, D.L., & Allen, J.J.B (in press). The psychophysiology laboratory. In J.A. Coan and J.J.B. Allen (Eds.), *The Handbook Of Emotion Elicitation And Assessment*, New York: Oxford University Press.

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<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description</u> <u>Instrument Types</u>
ANS PHYSIOLOGY SYSTEMS VENDORS				
AD Instruments	2205 Executive Circle Colorado Springs, CO 80906	P: 719-576-3970 F: 719-576-3971	adinstruments.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), analysis capabilities. ANS/CNS, Animal/Human.
Biopac Systems	42 Aero Camino Santa Goleta, CA 93117	P: 805-685-0066 F: 805-685-0067	Biopac.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), telemetry, analysis capabilities. ANS/CNS, Animal/Human.
Bio Impedance Technology Inc.	88 VilCom Campus, Suite 165 Chapel Hill, NC 27514	P: 919-960-7799 F: 919-960-6864	Microtronics-nc.com/BIT/Home.html	Data acquisition and analysis for cardiac function.
Contact Precision Instruments	P.O. Box 425605 Kendall Square Cambridge MA 02142	P: 617-661-7220 F: 617-661-8224	Psylab.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance),analysis capabilities. ANS/CNS, Animal/Human.
Coulbourn Instruments	7462 Penn Drive Allentown, PA 18106	P: 610-395-3771 F: 610-391-1333	Coulbourn.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) specialty amplifiers (EDA, Impedance), analysis capabilities. ANS/CNS, Animal/Human.

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
James Long Company	335 Kasson Drive Caroga Lake, Ny 12032	P: 518-835-3734 F: 518-835-8436	Jameslong.net	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), analysis capabilities. ANS/CNS, Animal/Human.
Lafayette Instrument Company	3700 Sagamore Parkway North PO Box 5729 Lafayette, IN 47903	P: 800-428-7545 765-423-1505 F: 765-423-4111	lafayetteinstrument.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA), analysis capabilities. ANS/CNS, Animal/Human.
Mindware Technologies	1110 Beecher Crossing North, Suite D Gahanna, OH 43230	P: 888-765-9735 614-933-9735 F: 614-933-9736	Mindwaretech.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), telemetry, analysis capabilities. ANS/CNS, Animal/Human.
CNS PHYSIOLOGY SYSTEMS AND SUPPLIES VENDORS				
Biopac Systems	42 Aero Camino Santa Barbara, CA 93117	P: 805-685-0066 F: 805-685-0067	Biopac.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), telemetry, analysis capabilities. ANS/CNS, Animal/Human.
Brain Products	Stockdorfer Strasse 54 Munich, D-81475 Germany	P: 49-89-744-244-50 F: 49-89-745-244-544	Brainproducts.com	CNS data acquisition and analysis. EEG, EMG,EOG, (ECG,EEG,EMG,)and analysis capabilities. CNS, Animal/Human.

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
Cortech Solutions	208 Princess Street Suite E Wilmington, NC 28401	P: 910-362-1143 F: 910-362-1147	Cortechsolutions.com	EEG data acquisition, analysis, and mapping
Electrode Arrays	612 N. Resler El Paso, TX 79912	P 915-861-1620 F 915-760-5253	Electrodearrays.com	EEG data acquisition, analysis, and mapping, recording supplies
Electrical Geodesics Inc.	1600 Millrace Dr. Suite 307 Eugene, OR 97403	P:541-687-7962 F:541-687-7963	Egi.com	EEG data acquisition, analysis, and mapping
Lafayette Instrument Company	3700 N. Sagamore Pkw Lafayette, IN 47904	P: (800) 428-7545 F: 765-423-4111	lafayetteinstrument.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,)and specialty amplifiers (EDA), analysis capabilities. ANS/CNS, Animal/Human.
Magstim Company Ltd.	Spring Gardens Carmarthenshire Whales, UK SA34 OHR	P: 44 (0)1994 240798 F: 44 (0)1994 240061	Magstim.com	Nerve Monitors, , nerve stimulators, and mapping
MedCare Inc.	55 Pineview Drive, # 100 Buffalo NY 14228- 2101	P: 716-691-0718 888-662-7632 F: 716-691-1004	Medcare.com	MedCare Inc.
Mindware Technologies	1110 Beecher Crossing N., Ste D Gahanna, OH 43230	P: 614-933-9735 F :614-933-9736	Mindwaretech.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,)and specialty amplifiers (EDA, Impedance), telemetry, analysis capabilities. ANS/CNS, Animal/Human. Laboratory integration.

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
Neuroscan/ Compumedics	5700 Cromo Dr. Suite 100 El Paso, TX 79912	P: 915-845- 5600 800-814- 8890 F: 915- 845- 2965	Neuro.com	EEG data acquisition, analysis, and mapping; recording supplies
SAM Technology Inc.	425 Bush St, Fifth Floor San Francisco, CA 94108	P: 415-837- 1600 F: 415-274- 9575	Eeg.com	EEG data acquisition and integration with fMRI imaging.
Sensorium Inc.	617 Dorset St. Charlotte, VT05445	P: 802-425- 2161 F: 802-425- 2171	Sensoriuminc.com	EEG data acquisition
Thought Technology	8396 Route 9 West Chazy, NY 12992	P: 514-489- 8251 800-361- 3651 F: 514-489- 8255	Thoughttechnology.com	General Psychophysiological recording systems, Biofeedback systems
AMBULATORY VENDORS				
Ambulatory Monitoring	731 Saw Mill River Road Ardsley, NY 10502- 0609	P: 800-341- 0066 F: 914-693- 6604	Ambulatory-monitoring.com	General purpose physiologic data, and activity/motion monitors.
Mindware Technologies	1110 Beecher Crossing N., Ste D Gahanna, OH 43230	P: 614-933- 9735 F: 614-933- 9736	Mindwaretech.com	Ambulatory Impedance Cardiograph, ANS/CNS data acquisition, Wi-fi capable.

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
SunTech Medical	507 Airport Blvd., #117 Morrisville, NC 27560	P: 919-654-2300 800-421-8626 F: 919-654-2301	Suntechmed.com	Ambulatory Blood Pressure monitors
Mini Mitter / Respiroincs	20300 Empire Ave. Bldg. B-3 Bend, OR 97701	P: 541-598-3800 800-685-2999 F: 541-322-7277	Minimitter.com	ANS/CNS Ambulatory Monitoring and Telemetry, Animal and Human, Actigraphs
UFI	545 Main C-2 Morro Bay, CA 93442	P: 805-772-1203 F: 805-772-5056	Ufiservingscience.com	General purpose signal and data loggers.
Vivo Metrics	121 N. Fir St. Suite E Ventura, CA 93001	P: 805-667-2225 F: 805-667-6646	Vivometrics.com	Ambulatory bioepotential monitors, including the lifeshirt
VU-Ambulatory Monitor	Prof. Dr. E.J.C. de Geus or Dr. G. Willemsen Vrije Universiteit, Department of Biological Psychology, Van der Boechorststaat 1, 1081 BT Amsterdam, The Netherlands.	P: +31 (0)20 598 8787 F: +31-(0)20-598 8832	vu-ams@psy.vu.nl for sales	Ambulatory impedance cardiovascular monitor

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PHYSIOLOGY INSTRUMENTS VENDORS				
Beckman Coulter Inc.	4300 N. Harbor Blvd P.O. Box 3100 Fullerton, CA 92834- 3100	P: 714-993- 5321 800-526- 3821 F: 714-961- 4165	Beckman.com	General purpose and medical instruments and supplies
Finapres Medical Systems	Paasheuvelweg 34a NL-1105 BJ Amsterdam ZO The Netherlands	P: +31 20 609 09 74 F: +31 20 609 06 77	Finapres.com	Blood pressure monitors
Grass Telefactor	Astro-Med Industrial Park 600 East Greenwich Ave. West Warwick, RI 02893	P: 401-828- 4000 877-472- 7779 F: 401-822- 2430	Grass-telefactor.com	Measurement Instruments, with focus on EEG and polysomnography systems and supplies
Keithley- Metrabyte Inc.	28775 Aurora Rd. Cleveland, OH 44139	P: 440-248- 0400 800-552- 1115 F: 440-248- 6168	Keithley.com	Measurement Instruments, Interface Cards
National Instruments Corporation	11500 N Mopac Expwy Austin, TX 78759-3504	P: 800-531- 5066 888-280- 7645 F: 512-683- 8411	Ni.com	Measurement Instruments, Interface Cards, Development Software.

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
MedWave / Vasotrac Inc.	435 Newbury St. Suite 206 Danvers, MA 01923- 1065	P: 978-762- 8999 F: 978-762- 8908	Vasotrac.com	Blood pressure monitors
Nellcor Inc.	4280 Hacienda Dr. Pleasanton, CA 94588	P: 800-280- 7645	Nellcor.com	Pulse Oximetry
NIMS Inc.	1666 Kennedy Causeway Suite 400 North Bay Village, FL 33141	P: 305-861- 0075 F: 305-861- 0669	http://www.ctech.net/nims/products.html	Non-invasive respiratory monitoring
Polar	1111 Marcus Ave. Suite M15 Lake Success, NY 11042-1034	P: 800-290- 6330 ext:3073 F: 516-364- 5454	Polar.fi Polarusa.com	Heart rate monitors
Texas Instruments	13532 N. Central Expressway M/S 3807 Dallas, TX 75243- 1108	P: 972-644- 5580 F: 972-927- 6377	ti.com	Amplifiers and signal processors
ANS/CNS RECORDING SUPPLIES VENDORS				
Biopac Systems	42 Aero Camino Santa Barbara, CA 93117	P: 805-685- 0066 F: 805-685- 0067	Biopac.com	Data acquisition and analysis. General biopotential (ECG,EEG,EMG,) and specialty amplifiers (EDA, Impedance), telemetry, analysis capabilities. ANS/CNS, Animal/Human.

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ElectroCap International	1011 West Lexington Rd. P.O. Box 87 Eaton, OH 45320	P: 937-456-6099 800-527-2193 F: 937-456-7323	Electrocap.com	EEG caps, electrodes, gel, sterilant, general supplies
Electrode Arrays	612 N. Resler El Paso, TX 79912	P 915-861-1620 F 915-760-5253	Electrodearrays.com	EEG data acquisition, analysis, and mapping, recording supplies
Easy Cap	Steingrabenstrasse 14 D-82211 Herrsching-Breitbrunn Germany	P: 49-0-8152-3722-24 F: 49-0-8152-3722-29	easycap.de/easycap/	EEG Caps and electrodes
Discount Disposables	Post Office Box 111 St. Albans, Vermont 05478	P: 802-527-8331 F: 802-527-5095	discountdisposables.com	Disposable and reusable electrodes, gels, general supplies
Lafayette Instrument Company	3700 N. Sagamore Pkwy Lafayette, IN 47904	P: (800) 428-7545 F: 765-423-4111	lafayetteinstrument.com	ANS/CNS, Animal/Human.
Mindware Technologies	1110 Beecher Crossing N., Ste D Gahanna, OH 43230	P: 614-933-9735 F :614-933-9736	Mindwaretech.com	ANS/CNS, Animal/Human.
Neuroscan/Compumedics	5700 Cromo Dr. Suite 100 El Paso, TX 79912	P: 915-845-5600 800-814-8890 F: 915- 845-2965	Neuro.com	EEG data acquisition, analysis, and mapping; recording supplies
ANIMAL BEHAVIOUR AND MONITORING VENDORS				

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
Lafayette Instrument Company	3700 N. Sagamore Pkwy Lafayette, IN 47904	P: (800) 428-7545 F: 765-423-4111	lafayetteinstrument.com	Animal Behavior
Med Associates Inc.	Post Office Box 319, St. Albans, VT 05478	P: 802-527-2343 F: 802-527-509	Med-associates.com	Animal Behavior
Mini Mitter / Respiroincs	20300 Empire Ave. Bldg. B-3 Bend, OR 97701	P: 541-598-3800 800-685-2999 F: 541-322-7277	Minimitter.com	ANS/CNS Ambulatory Monitoring and Telemetry, Animal and Human
EYE TRACKING, MOTION MEASUREMENT VENDORS				
Applied Science Laboratories	175 Middlesex Turnpike Bedford, MA 01730	P: 781- 275-4000 F: 781-275-3388	a-s-l.com	Eye-Tracking
Arrington Research	27237 N. 71st Place Scottsdale AZ 85262	P: 480-985-5810 866-222-3937 F: 425-984-6968	arringtonresearch.com	Eye-Tracking
Charnwood Dynamics	Unit 2, Victoria Mills, Fowke Street, Rothley, Leicestershire, LE7 7PJ, United Kingdom.	P: +44 (0)116 230 1060 F: +44 (0)116 230 1857	charndyn.com	Motion Capture

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
Innovision Systems	3717 Peters Rd. Columbiaville, MI 48421	P: (810) 793-5530 F: (810) 793-1714	innovision-systems.com	Motion Capture
Seeing Machines	Level 3, Innovations Building Corner Garran and Eggleston Rd Canberra ACT 2600 AUSTRALIA	P: + [61] 2 6125 6501 F: + [61] 2 6125 6504	Seeingmachines.com	Motion Capture, gaze, head, and eye tracking
Tobii Technology	2050 Ardmore Boulevard, Suite 200 Pittsburgh, PA 15221-4610	P: 412.271.5040 F: 412.271.7077	Pstnet.com	Eye-Tracking
SOFTWARE VENDORS				
Biopac Systems	42 Aero Camino Santa Barbara, CA 93117	P: 805-685-0066 F: 805-685-0067	Biopac.com	ANS/CNS acquisition and analysis
CMET & QRSTool	University of Arizona		www.u.arizona.edu/~jallen	Freely available software for computing metrics of cardiac variability
DMDX Software	University Of Arizona		www.u.arizona.edu/~kforster/dmdx/dmdx.htm	Freely available stimulus presentation and control
EEGLAB Software	UC San Diego		www.sccn.ucsd.edu/eeglab	Open source based Matlab toolbox for CNS analysis
E-Prime; Psychology Software Tools	2050 Ardmore Boulevard, Suite 200 Pittsburgh, PA 15221-4610	P: 412-271-5040 F: 412-271-7077	Pstnet.com	Stimulus presentation and control

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
EMSE: Source Signal Imaging Inc.	2323 Broadway Suite 102 San Diego, CA 92102	P: 619-234- 9935 F: 619-234- 9934	Sourcesignal.com	EMSE: an EEG/MEG/fMRI Imaging Analysis Suite
ERTS Software: BeriSoft Corporation	Wildenbruchstr. 49 60431 Frankfurt Germany	P: +49 69 524248 F: +49 69 524218	www.erts.de	Stimulus presentation and control
INTERACT Software; Mangold Software & Consulting	Mangold Software & Consulting Graf von Deym Str. 5 94424 Arnstorf Germany	P: +49 0 8723 9 78 33 0 F: +49 0 8723 9 78 33 3	http://www.mangold.de/english/index.htm	Data processing of physiological signals, video recordings, and live observations
Labview Software; National Instruments	11500 N Mopac Expwy Austin, TX 78759-3504	P: 800-531- 5066 888-280- 7645 F: 512-683- 8411	Ni.com	Measurement Instruments, Interface Cards, Development Software.
MATLAB; The MathWorks, Inc.	3 Apple Hill Drive Natick, MA 01760- 2098	P: 508-647- 7000 F: 508-647- 7001	www.mathworks.com	General purpose data analysis, with toolboxes for statistics and signal processing
MediaLab/ Direct RT; Empirisoft Corporation	Empirisoft Corporation 28 W 27th St, Fl 5 New York, NY 10001	P: 212-686- 8229 888-519- 9758 F: 212-202- 4536 877-474- 1218	empirisoft.com	Stimulus presentation and control

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
Mindware Technologies	1110 Beecher Crossing N., Ste D Gahanna, OH 43230	P: 614-933-9735 F :614-933-9736	Mindwaretech.com	ANS/CNS acquisition and analysis, integrated stimulus presentation and control
Octave Software			Octave.org/	Free software for numerical computations
Pendragon Software	1580 S. Milwaukee Ave Suite 515 Libertyville, IL 60048	P: 847-816-9660 F: 847-816-9710	pendragon-software.com	PDA-based form sampling
Presentation Software	Neurobehavioral Systems, Inc. 828 San Pablo Avenue Suite 216 Albany, CA 94706	P: 510-527-9231 F: 775-628-6773	nbs.neuro-bs.com/	Stimulus presentation and control
PsyLab: Contact Precision Instruments	P.O. Box 425605 Kendall Square Cambridge MA 02142	P: 617-661-7220 F: 617-661-8224	www.psylab.com	ANS/CNS acquisition and analysis
SciLab Software		Scilab@inria.fr	www.scilab.org	Free development application for data acquisition and analysis.
SuperLab: Cedrus Corporation	Cedrus Corporation P.O. Box 6309 San Pedro, CA 90734	P: 310-548-9595 800-233-7871 F: 310-548-9537	www.superlab.com	Stimulus presentation and control; Experimental lab software and experiment generator
VivoLogic Software: Vivo Metrics	121 N. Fir St. Suite E Ventura, CA 93001	P: 805-667-2225 F: 805-667-6646	Vivometrics.com	ANS/CNS analysis

<u>Vendor Name</u>	<u>Address</u>	<u>Phone & Fax</u>	<u>Web Address</u>	<u>Description Instrument Types</u>
VPM Software	Ed Cook University of Alabama -- Birmingham		ecook@uab.edu	DOS-based data collection and stimulus control program
Windaq Software: DataQ Instruments	241 Springside Drive Akron, OH 44333	P: 330-668- 1444 F: 330-666- 5434	www.dataq.com	ANS/CNS acquisition and analysis

