

Resources for Electrocardiography Data Acquisition and Analysis

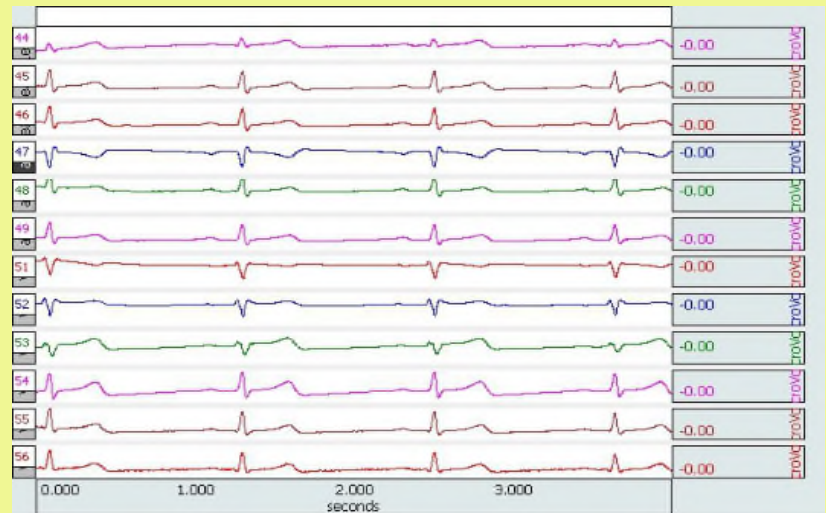
Record ECG data from one-, three-, or multi-lead montages and implement a fully automated LEAD II analysis or automatically classify heartbeats.

Key Features

- [Automated ECG Analysis](#)
- [RMSSD For HRV Analysis](#)
- [Respiration Sinus Arrhythmia \(RSA\)](#)
- [Classifying Heartbeats \(ECG Classification\)](#)
- [12-Lead ECG Recordings](#)

Knowledge Base

- [Clinical Chart Grid Settings For ECG](#)
- [ECG Analysis](#)
- [ECG Artifact in EMG Signal](#)
- [ECG R-Wave Detector](#)
- [Extracting Heart Rate From a Noisy ECG Signal](#)



Hardware Options for High-Quality ECG

Request more information online



WIRED

- [MP150](#) Wired 16-channel A/D
- [ECG100C](#) Advanced Amplifier for Research
- [MP36R](#) Wired Universal Amp
- [EL502](#) Disposable Long-Term Electrodes
- [SS29L](#) Multi-Lead ECG CBL,BSL
- [TSD155C](#) Multi-Lead ECG CBL,C-Series
- [WT100C](#) Wilson Terminal for ECG100C TP, 20cm
- [EL513](#) Disposable Cloth Facial Electrodes
- [LEAD110](#) Lead Wire with Clip for EL500 Series



WIRELESS

- [BN-ECG2](#) 2CH Wireless ECG Amplifier
- [BN-ECG2-T](#) 2 CH Wireless ECG Transmitter
- [BN-RSPEC](#) Wireless RSP with ECG Amplifier
- [BN-BIOSHIRT](#) Wireless, Wearable Smart Shirt
- [EPOCH-ECG-SYS](#) Wireless ECG Systems
- [EPOCH-ECG-SEN](#) Wireless ECG Transmitters



MRI

- [ECG100C-MRI](#) Wired MRI ECG
- [DTU200](#) MRI Gating System for Two Signals (Small Animal)
- [DTU300](#) MRI Gating System for Two Signals (Large Animal)
- [GATE-CARD-E\(L\)](#) Complete Dual-Channel Gating System
- [EL508](#) Disposable Radiotranslucent Electrode
- [LEAD108B/C](#) Clip Lead Unshielded, 15 cm or 30 cm options

BIOPAC - Inspiring people and enabling discovery about life.

(805) 685-0066 info@biopac.com www.biopac.com

Video Tutorials for Analysis

- [Automated ECG Analysis- Lead II](#)
- [Classifying Heartbeats](#)
- [Dual-Channel MRI Gating Systems|DTU200/300 Data](#)
- [Locate Animal ECG Complex Bound. in AcqKnowledge](#)
- [EL- CHECK Portable Impedance Checker from BIOPAC](#)
- [BioHarness Data Logger in Action](#)

Application Notes

- 109 – [3-,6-,and 12- Lead ECG](#)
- 129 – [Heart Rate Variability](#)
- 148 – [Automated ECG Analysis](#)
- 172 – [Multilead ECG Calbe-SS29L](#)
- 177 – [ECG Analysis Using the Offline Averaging Mode](#)
- 206- [Continuous 12- Lead ECG](#)
- 233- [Heart Rate Variability- Preparing Data for Analysis](#)
- 242- [Recording ECG Data in an fMRI](#)
- 279- [ECG and EDA Recording in 7-Tesla fMRI](#)
- 281- [ECG Timing Delay Associated with Amplifier Filter Selections](#)

System Level Solutions

Hardware Bundles Available to Purchase Online



WIRED

- [MP150](#) System uses Reusable Electrodes
- [MP36R](#) System uses Reusable Electrodes
- [MP36R](#) System uses Reusable Electrodes



WIRELESS

- [BioNomadix](#) System with Matched ECG Transmitter/Receiver set and MP150
- [BioHarness](#) Lightweight, Portable Data Logger and Telemetry System
- [Mobita](#) Wearable 32-Channel Biopotential System

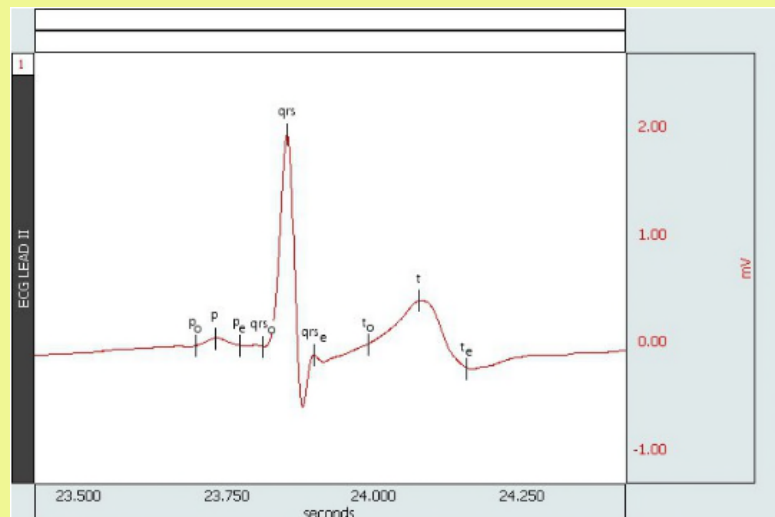


MRI

- [MP150](#) System Uses Disposable and Reusable Electrodes for MRI

Automated Analysis with AcqKnowledge

- Detect and Classify Heartbeats
- ECG Interval Extraction
- Locate ECG Complex Boundaries
- Heart Rate Variability
- Poincare Plot
- Respiratory Sinus Arrhythmia (RSA)
- Ensemble Average
- Wavelet Denoising
- Waterfall Plot
- Epoch Analysis- Automated Data Reduction



BIOPAC - Inspiring people and enabling discovery about life.

Research Citations

Selected citations below—[search online](#) for more than 2,700 BIOPAC Citations for EDA

[A Wearable Context-Aware ECG Monitoring System Integrated with Built-in Kinematic Sensors of the Smartphone](#)

Fen Miao, Yayu Cheng, Yi He, Qingyun He and Ye Li

[Body Dissatisfaction and Mirror Exposure: Evidence for a Dissociation Between Self-Report and Physiological Responses in Highly Body-Dissatisfied Women](#)

Fátima Servián-Franco, Silvia Moreno-Domínguez, Gustavo A. Reyes del Paso

[Characterizing Psychological Dimensions in Non-Pathological Subjects Through Autonomic Nervous System Dynamics](#)

Nardelli, et al

[Differences in Kinematics and Heart Rate Variability Between Winner and Loser of Various Skilled Levels During Competitive Golf Putting Tournament](#)

Choi, et al

[Rapid Stress System Drives Chemical Transfer of Fear from Sender to Receiver](#)

Jasper H.B. de Groot, Monique A.M. Smeets, Gün R. Semin

[Reduced Room for Cardiac Vagal Modulation to Increase and Cardiac Sympathetic Modulation to Decrease by Resting in Football Players](#)

Wan-An Lu, Yu-Chung Chen and Cheng-Deng Kuo

[Simulating Murder: The Aversion to Harmful Action](#)

Fiery Cushman, Kurt Gray, Allison Gaffey & Wendy Berry Mendes

[The Effects of Measuring Emotion: Physiological Reactions to Emotional Situations Depend on Whether Someone Is Asking](#)

Karim S. Kassam, Wendy Berry Mendes

[The Psychology of Common Knowledge: Coordination, Indirect Speech, and Self-Conscious Emotions](#)

Thomas, Kyle

[Transforming or Restraining Rumination: The Impact of Compassionate Reappraisal Versus Emotion Suppression on Empathy, Forgiveness, and Affective Psychophysiology](#)

Charlotte Van Oyen Wityliet

[Unified Frame of Reference Improves Inter-Subject Variability of Seismocardiograms](#)

Mikko Paukkunen, Petteri Parkkila, Raimo Kettunen and Raimo Sepponen

[Unstable Power Threatens the Powerful and Challenges the Powerless: Evidence from Cardiovascular Markers of Motivation](#)

Daan Scheepers, Charlotte Röell and Naomi Ellemers



Contact BIOPAC to learn more or request a quotation!

BIOPAC - Inspiring people and enabling discovery about life.

(805) 685-0066

info@biopac.com

www.biopac.com