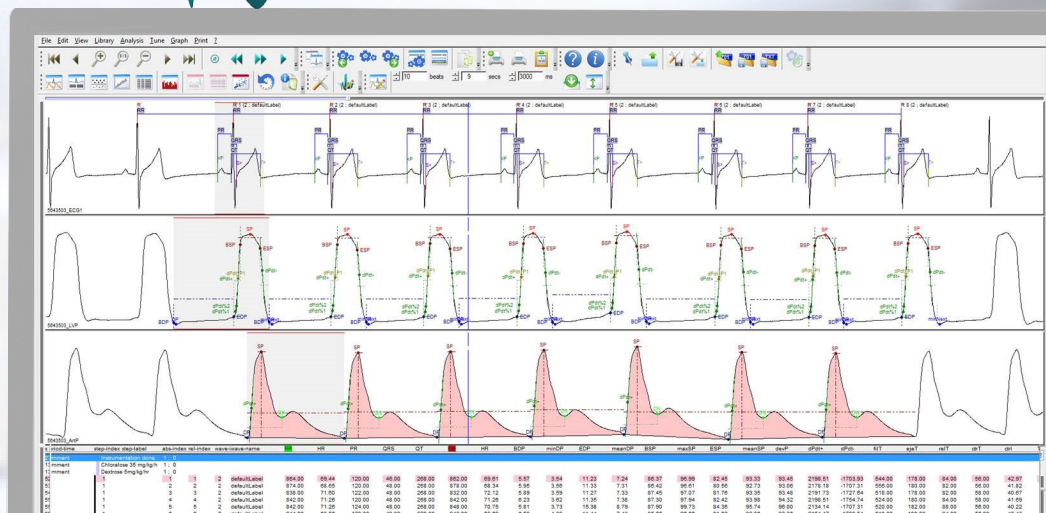
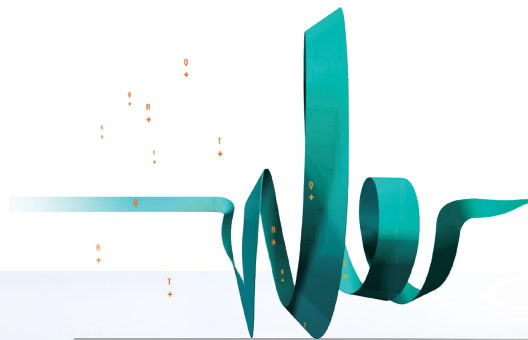


ecgAUTO

Post-Processing Data Analysis Software

Cardiovascular | Pharmacology
Respiratory | Toxicology
Neurology | Physiology



ecgAUTO is a GLP compliant software that allows researchers to perform field-tested, fast, reliable & in-depth analysis of data generated during an experiment.

It offers application-specific modules for post-acquisition analysis of cardiovascular, respiratory and neurological data.



Modular

Cardiovascular data analysis
(LVP, BP, NIBP, BF, MAP)

Respiratory data analysis

Neuro data analysis
(EEG+ module)

GLP modules



Efficient

Automated

Pioneering shape recognition technique

Analyze 24hr of ECG recording
in just a few minutes.

21 CFR part 11 compliant



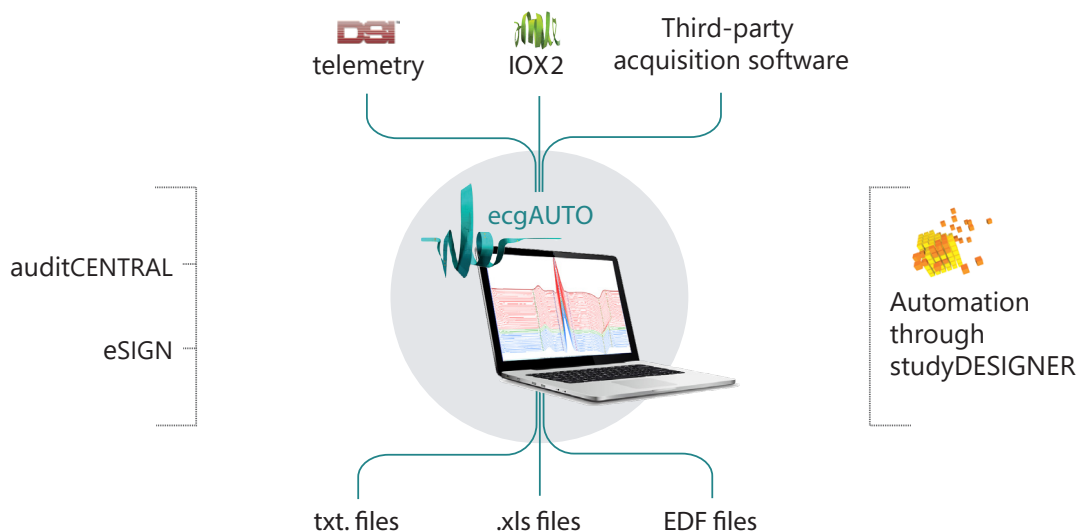
Customizable

Custom parameters & protocols

Interactive dashboards

Various data file formats
(EDF, SEND, txt...)

ecgAUTO reads files produced by IOX software and by most major data acquisition software (please inquire).

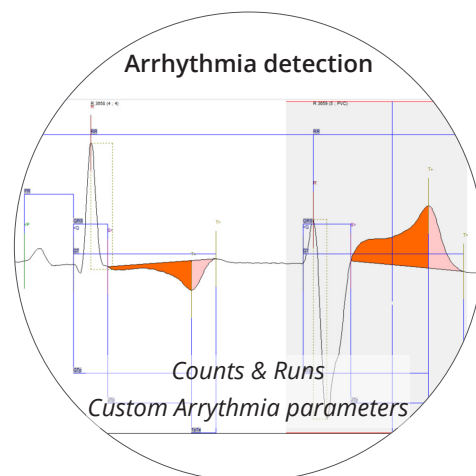
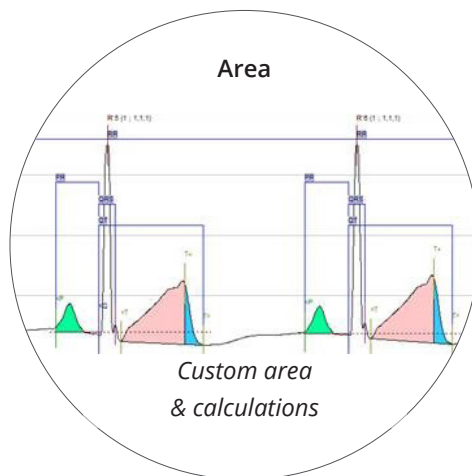
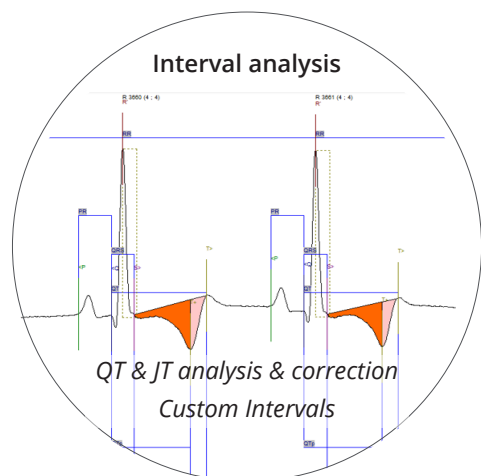


ECG ANALYSIS: HOW DOES IT WORK?

ecgAUTO analyzes normal or abnormal ECG complexes, from any species (dogs, pigs, primates, guinea-pigs, rats, mice and more) on any lead, using shape recognition techniques.

This technique uses a library of reference waveforms, built by the users for their specific needs. Analysis is carried out on segments of data (steps) defined by protocol and based on markers in the original experimental data.

THE GOLD STANDARD FOR AUTOMATED ECG ANALYSIS



IN-DEPTH MULTI-LEAD ECG ANALYSIS

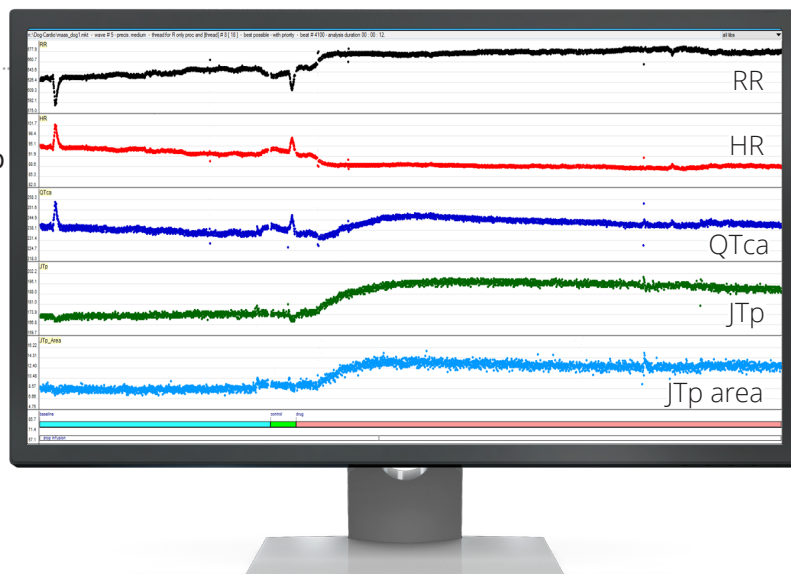
- » Beat-by-beat calculation of intervals (e.g. RR, QRS, QT), amplitude, area etc.
- » Single or multi-lead analysis from any type of cutaneous, subcutaneous or intra-cardiac leads
- » Arrhythmia analysis and ectopic detection
- » Inter- and multi-lead processing, custom parameters
- » Automated batch analysis

ADVANCED FEATURES

- » **Subject specific QT correction:** any number of simultaneous corrections from a choice of 6 pre-defined formulas, plus any number of custom formulas.
- » **Heart Rate Variability analysis:** automatically produces multi-epoch analysis and full Fourier analysis
- » **Isolated P-wave detection:** statistics on occurrences per data zone are automatically produced

COMPREHENSIVE REVIEW FEATURES

- » Full list of detected beats, trend graphs
- » Average beats & statistical values per step
- » Holter-type calibrated print-outs

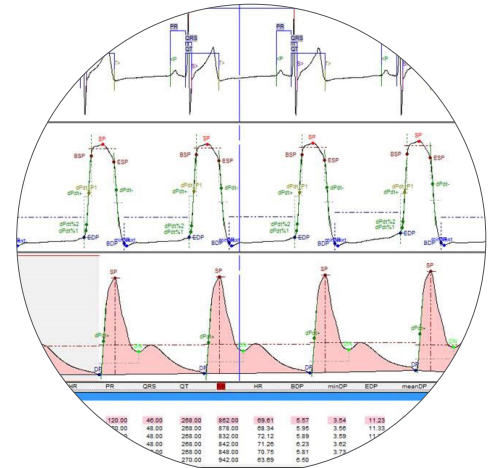




CARDIO

BLOOD PRESSURE & FLOW, ACTION POTENTIALS

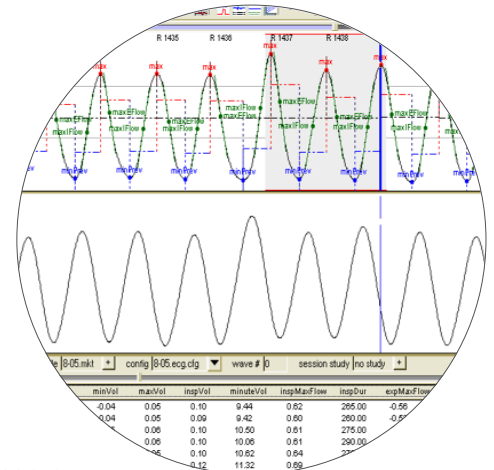
- » Arterial blood pressure and baroreflex sensitivity
- » Left ventricular pressure incl. Contractility and Tau
- » Detection of respiration from blood pressure
- » Conduction time
- » Arterial and coronary flow
- » Non-invasive oscillometry from cuff (NIBP)
- » Monophasic action potential



RESPIRATORY

INDUCTANCE PLETHYSMOGRAPHY (RIP), WHOLE BODY PLETHYSMOGRAPH (WBP)

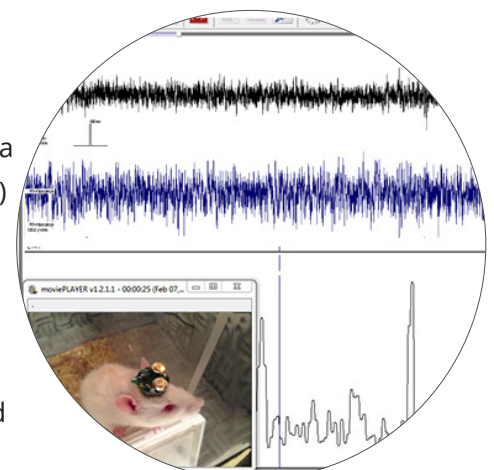
- » Duration of inspiration and expiration, breathing rate
- » Max flows, relaxation times
- » Apnea detection
- » Tidal and minute volume
- » penH
- » From dual RIP belts, phase shift as time or angle



NEURO

EPILEPSY SEIZURE DETECTION & SLEEP SCORING ANALYSIS

- » Automatic seizure detection
- » Differentiates between 4 sleep stages
- » Real-time video synchronized to biological signals,
 - » Several sites (subjects) can be linked to each camera
 - » All resolutions supported (HD and Full-HD included)
 - » Real-time compression, 1 to 30 frames/second
 - » Color/infrared (acquisition by night)
 - » Camera sound and movement managed
 - » Compatible with various IP camera brands
 - » Video streams dynamically linked and synchronized to IOX raw data files



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