



Mouse Specifics, Inc.



MSI provides innovative solutions for the *in vivo* study of models of human diseases. Our instruments, software, & services empower researchers to generate higher quality data at lower cost. Our resources can help transform your pre-clinical studies.

EzCG ANALYSIS SOFTWARE

A fast heart beat deserves fast analysis!

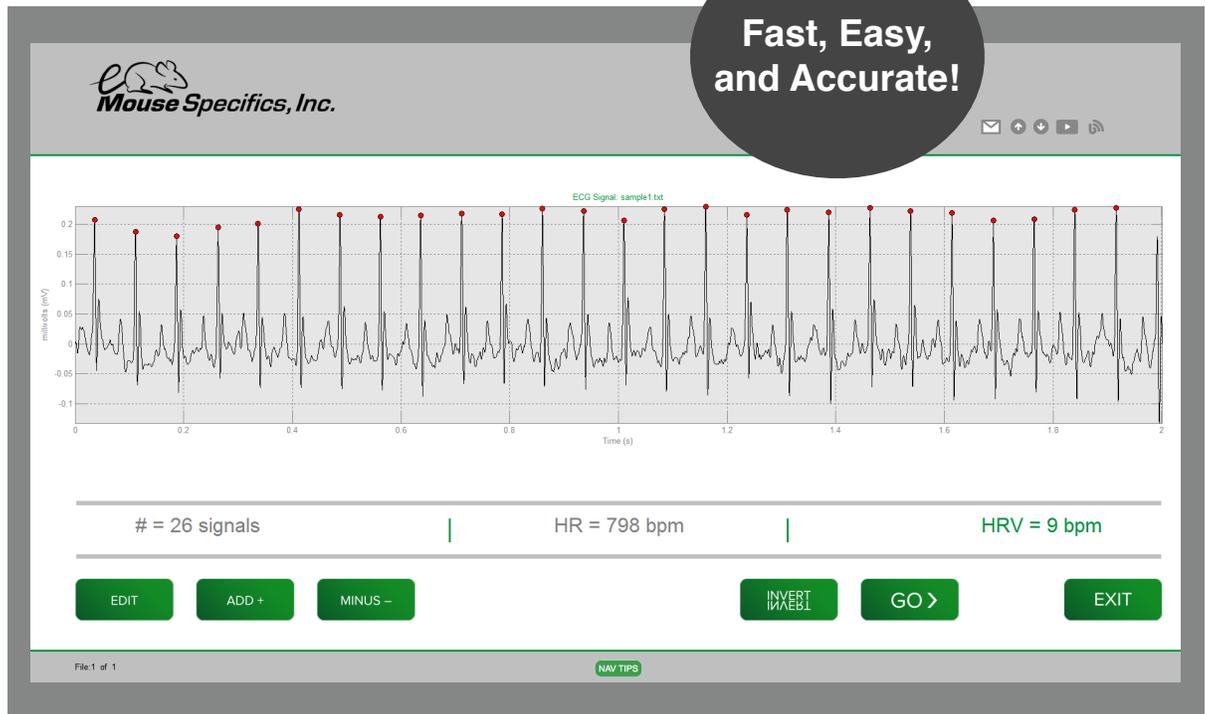
EzCG signal analysis software is applied to study the cardiovascular health of tens of thousands of laboratory animals because

EzCG is **fast, easy to use, and accurate!**



The mouse heart beats nearly **750,000 times** a day, providing *a lot* of ECG signals! With millions of lab animals used annually in research, the **EzCG** simplifies the lives of their caregivers and researchers striving to better understand and treat **human disorders.**

**Fast, Easy,
and Accurate!**



EzCG is FAST

A cardiotoxicity study might include ECG recordings from 20 mice at baseline and following administration of a new chemical entity. Complete analysis of 40 sets of ECG signals takes about 20 minutes - including polarity inversion, noise exclusion, and frequency domain heart rate variability analysis. The non-invasive ECGenie for recording ECG in awake mice, coupled with EzCG analysis, accomplishes in a few hours what telemetry does in 3 weeks.

EzCG is EASY

The intuitive interface presents the user with the ECG signals of interest, having automatically identified the R waves. Noise and undesired complexes are readily excluded, without changing the true RR variability within the signal. Typically a few clicks presents a tabulation of all the standard PQRST interval durations, and all of the heart rate variability indices, in the time domain and the frequency domain.

EzCG is ACCURATE

Numerical analysis is performed on each individual complex, NOT the average of beats, since averaging can introduce error. Artifact and erroneous signals that would bias heart rate variability metrics can be excluded. An ensemble average complex is displayed to codify the accuracy of the tabulated data, graphically indicating deviation from the previous signal benchmark. J-waves deemed R waves, and P wave correction options ensure the accuracy of the data.