



NON-INVASIVE ECG & ACCELERATION

Wireless backpack solution for rodents

CONFIGURABLE SIGNALS

rodentPACK transmitter acquires:

- » 1 or 2-lead ECG (2 or 4 electrode cable)
- » x/y/z and global accelerations for postural & activity assessment



SYSTEM CONFIGURATION

- » A transmitter, worn into a jacket
- » Only 1 receiver for 4 animals
- » smartTOOL for transmitter configuration
- » Fully digital: only 1 Ethernet cable per receiver handles data & power



Fully equipped animal. The transmitter is located in the back pocket of the jacket

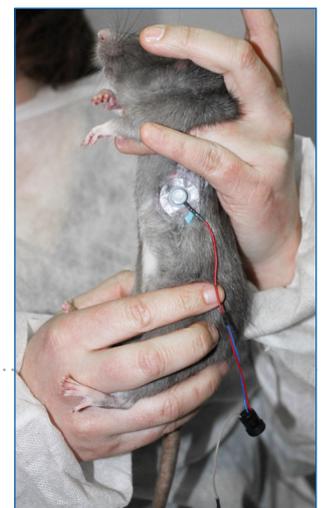
KEY FEATURES

- » Compact & light : transmitter only weighs 5.2g with batteries
- » Transmission range up to 5 m
- » 150 hours of continuous recording with same batteries
- » Rapid acclimation: rats are not restrained in their activities
- » Group housing with multiple animals in same cage
- » Up to 32 animals in same room with no required shielding
- » May also be used for EEG acquisition (fixed to the cranium)

DATA ACQUISITION & ANALYSIS

Data acquisition with iox2 software:

- » Long term continuous data recording, real-time analysis and display
- » Synchronized video recording



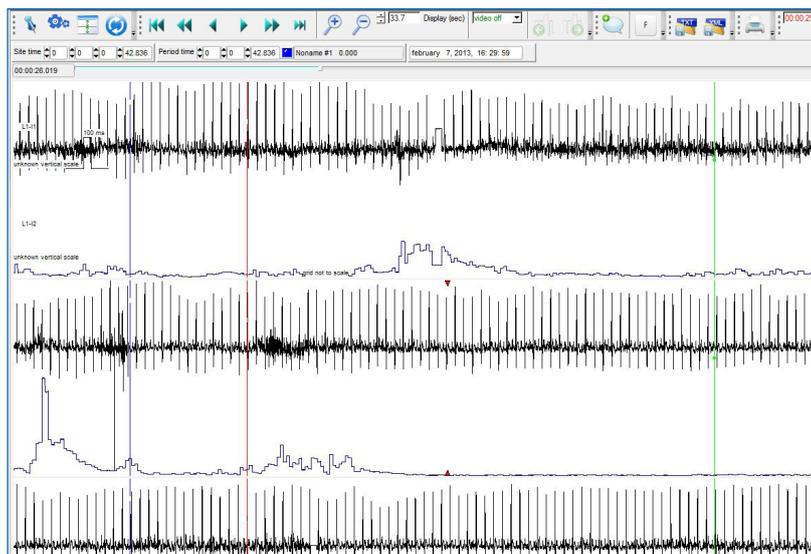
Electrode on shaved skin



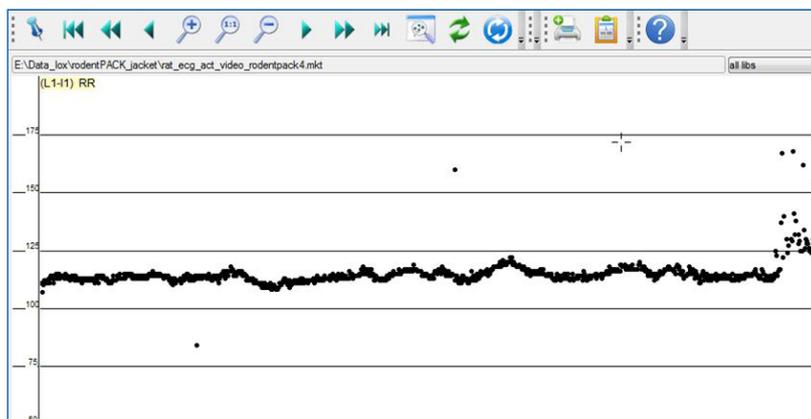
DATA ACQUISITION & ANALYSIS

Gold standard ECG analysis with ecgAUTO software:

- » Beat-by-beat, single, inter and multi-lead analysis
- » Full range of parameters (intervals, amplitudes, areas)
- » Custom parameters (inter-beat, inter-lead, formulas)
- » Subject dependent advanced QT correction
- » Isolated P-waves, arrhythmias, abnormal events detection
- » Variability analysis on any parameter
- » Automated protocol and batch analysis of successive files
- » Extensive data review, edition, export modes



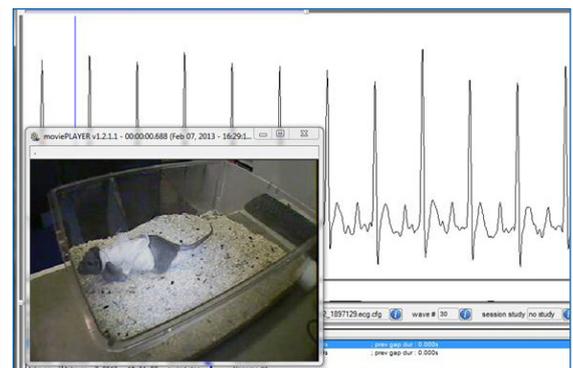
2 minutes of signal (ECG and acceleration)



Trend graphs of individual RR values

SPECIFICATIONS

Transmitter	
Weight (with batteries)	5.2 g
Batteries	2 x 1.45V zinc-air
ECG	
Input bandwidth	1 - 150 Hz
Sampling frequency	250 - 1000Hz
Input range	±4 mV
Resolution	2 µV
Acceleration	
Sampling frequency	50 - 250Hz
Resolution	2 - 16 g



Review in ecgAUTO software with synchronized video

All contents Copyright © July 2016 emka TECHNOLOGIES SAS. All rights reserved. Because emka TECHNOLOGIES has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.