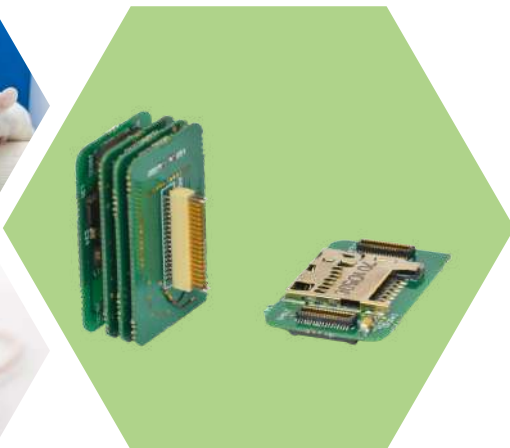# ONEIROS

ELECTROPHYSIOGICAL SYSTEM

Oneiros is a miniaturized device capable of recording multiple biological parameters in laboratory and field conditions for unprecedent periods of time.
This new electrophysical measurement system designed for conducting research on freely moving small animals is capable of recording several days up to 26 electrophysical signals (EEG, EMG, ECG, EOG or LFP), metabolic (3 temperature channels such as brain, body and ambient) and behavior via tri-axial accelerometer.

- Extreme flexibility: configurable signals, customizable configuration
- Incredible autonomy: long term continuous data recording (7 days)
- Real-time analysis and display
- Extra clean noise free electrophysiological signals
- 5 meters Wireless SmartID data transmitter / receiver (no interferences)
- Removable wireless transmitter connected to skull implant only during experiment
- Small and light: adaptable weight configuration
- Controllable embedded stimulation and TTL

ONEIROS is the only miniaturized wireless telemetric /data logger* system designed to provide researchers a tool that overcomes the limitations of existing wireless devices.

Our system provides never seen flexibility in the configuration of the channel number, autonomy and sampling rate, allowing users to completely customize data acquisition according to their needs.

An integrated vibrating device can be embedded in the system and controlled using either real-time or predefined sequences of variable durations and intensities of vibration to assess arousal thresholds or perform selective paradoxical sleep deprivation.

ONEIROS is designed to match your optimal requirement:

- Number of channels: 4 to 26 biopotential
- Bandwidth: 0 to 8000 Mhz
- Weight: 2 to 10 gr

ONEIROS allows various possible experimental conditions for different animal species. It's used for neuroscience applications (PTSD, addiction, diseases...), behavioral tasks such as memory, mazes, novel object recognition, and fear conditioning but also for animal models of epilepsy wherein long-term recording need to capture seizure related brain activity and behaviors.

PROVIDED SERVICES

Update
All updates are compatible. You can constantly improve your research.

Training
Provided with an on-site training. All the users will know how to get the best from our solution.

Remote support
Constant remote support available. We can quickly provide assistance, diagnose, and fix any issue.

Worldwide coverage
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