



RELAX

THE MOST ACCURATE RELAXATION MONITORING DEVICE FOR EVERYDAY LIFE

+ WHAT IS RELAX?

RELAX is the first ever wearable certified-ready medical device to measure and monitor brain activity outside a clinical environment. It can be used by anyone at home, work or elsewhere to provide real-time neurofeedback by measuring, for instance, alpha brain waves.

Users can monitor their own level of attention and enhance their mindfulness using this safe, user friendly, affordable and non-invasive device.

RELAX is fitted with dry electrodes that sense and measure the alpha waves generated by the brain when in a relaxed, laid-back mood.

Leti has also developed the RELAX App, which live-tracks your relaxation level by processing and recording your alpha waves.

+ APPLICATIONS

- **Brain fitness (Neurofeedback):** this powerful stress management and sleep enhancement technique leads to spectacular improvement in a person's quality of life.
- **Brain-computer interface:** object command and control through thought is possible by reading brain signals when thinking specifically. Applications would include virtual reality, video games and remote assistance of disabled persons in controlling home automation functions.
- **Mental focus monitoring:** tracking concentration and level of attention in high-stakes occupational situations can save lives and prevent environmental disasters. Air and road traffic control, and highly efficient digital learning tools are among the multiple applications of this technology.

+ WHAT'S NEW?

- Leti's medical device certified technology establishes a high quality starting point for further consumer-focused development—from medical devices to wellness applications
- First ever EEG (Electroencephalography) device to operate with dry electrodes
- New, simplified technology making alpha wave measurement available outside the clinical environment
- EEG hardware and software development for brain activity measurement spans more than a decade
- RELAX is built using off-the-shelf components

+ WHAT'S NEXT?

Leti has developed, in close industrial cooperation, three separate packages dedicated to neurofeedback, brain-computer interfacing and mental focus monitoring—the last two are now available.

Manufacturing partners will develop Leti's brain-computer and mental focus technologies into full hardware-software concepts. They will be able to develop a wide range of wellness, wearable sports and fitness-related devices such as wrist band and chest strap—currently under development.

Leti researchers will continue their work to enable other functions such as optical activity measurement.



INTERESTED IN THIS TECHNOLOGY?

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