

# NEURON- SPECTRUM-

# 1/V

veterinary digital  
EEG system



## WHY USE EEG IN ANIMALS?

Electroencephalography is the method of studying the brain by means of recording its bioelectrical activity. Therefore, if there is any pathological process causing brain dysfunction, it will be reflected in different EEG abnormalities.

Clinical EEG analysis provides diagnostic information regarding 3 main issues: evidence for brain damage, disease prognosis, brain damage localization.

## PRODUCT DESCRIPTION

Neuron-Spectrum-1/V is a pocket-sized device that can be simply connected to the computer via USB interface.

The recorded EEG data is displayed on the computer screen and can be printed out on any printer.

The included software performs brain mapping as well as spectral, periodometric and coherent analyses of EEG.

---

The electroencephalography is the safe and minimally invasive neurodiagnostic technique. The supplied needle electrodes are so thin and skin-friendly that they cause almost no skin irritation still ensuring good recording quality. Slight sedation of the animal is required to guarantee the smooth procedure and to avoid myographic and other artifacts.

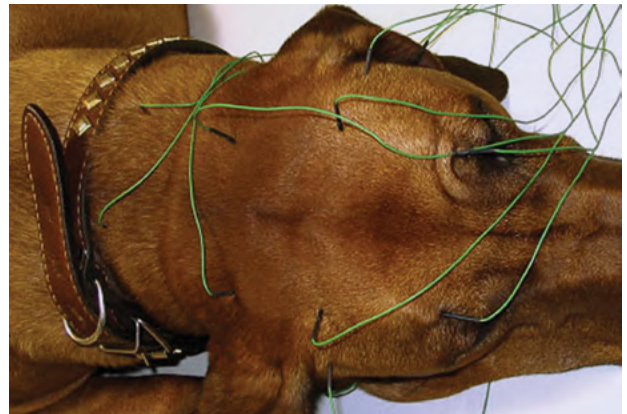
---

## INDICATIONS FOR EEG

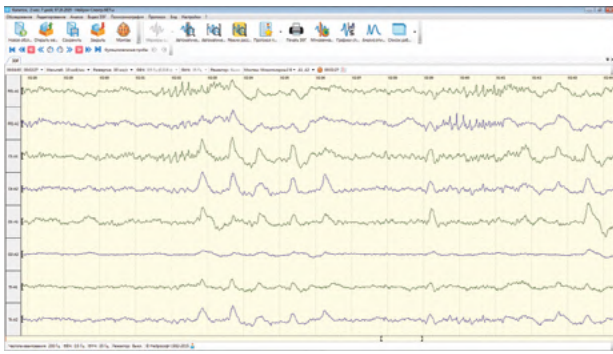
- Seizures and syncopal events of different etiology. In this aspect, special attention should be paid to epilepsy because it implies significant neurophysiological problems specific to small pets.
- Cerebral circulation failure, subdural hematoma, traumatic brain injury. In this case, EEG allows determining the lesion size, predicting outcome and evaluating treatment efficacy.
- Brain tumor. This is when EEG along with MRI might serve as diagnostic method to define tumor localization.

EEG examination is rather informative and it is usually enough to obtain data necessary for diagnosis, treatment decision making, and other related aspects.

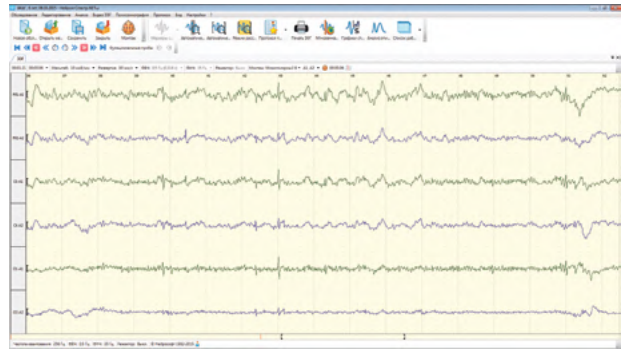
It is recommended that the technician using the system is well-trained in EEG and has EEG interpretation skills.



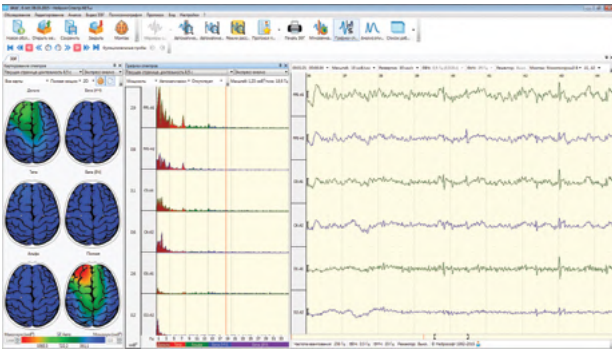
## EXAMINATIONS



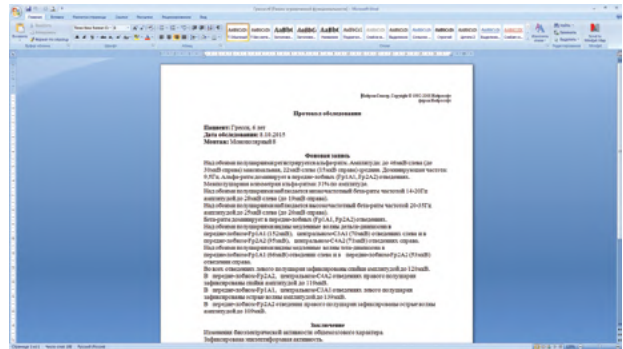
EEG of the dog. Bilateral synchronous slow wave activity



EEG of the dog. Spikes and sharp waves



EEG of the dog. Topographic maps. Spectral graphs



EEG of the dog. Examination report

## DELIVERY SET



- Neuron-Spectrum-1 electronic unit
- Disposable subdermal single-use needle electrode with cable (15 pcs.)
- Assembled holder H-1S
- Holder mount
- PhS-3 LED photic stimulator on holder
- Technical and user manuals
- Software
- Transportation bag