

NEURON-SPECTRUM-VIDEO

Comprehensive solutions for long-term video EEG monitoring

- full HD video recording from one, two, or three cameras simultaneously
- suitable for epileptology, polysomnography and cerebral function monitoring
- long-term monitoring in both clinical and ambulatory settings
- unmatched comfort and assured mobility for a patient
- continuous monitoring of patient status, trends and patient event notifications



EEG

LONG-TERM VIDEO EEG MONITORING

– GOLD STANDARD FOR EPILEPSY DIAGNOSTICS!

Long-term video EEG monitoring is a diagnostic technique that allows recording of continuous EEG activity (up to several days) with synchronized patient's video. It helps to distinguish the true epileptiform activity from artifacts and non epileptic paroxysmal events. Yet, patient's video allows assessing clinical presentation of a seizure, while synchronous EEG recording facilitates precise epileptogenic zone localization.

Video EEG monitoring has proved to be an effective tool for seizure detection showing higher results if compared to routine EEG. The high diagnostic accuracy is explained by longer recording time, monitoring during natural sleep or after sleep deprivation and synchronized video recording. Long-term video EEG may be performed in inpatient or outpatient settings. It is known that the factors associated with home environment or patient's lifestyle may provoke epileptiform activity. That is why diagnostic accuracy of ambulatory video EEG monitoring may be higher than the one of an inpatient study.

USER-FRIENDLY NEURON-SPECTRUM.NET SOFTWARE – YOUR TRUE MATE IN EVERYDAY PRACTICE!



User configurable arrangement of trace, video and analysis windows



Advanced EEG trace navigation tools



Dual monitor mode



Calculation of amplitude and frequency trends



Automatic detection and arrangement of paroxysmal events



Automatic report generation using preset templates

ARRANGING YOUR VIDEO EEG LAB IS SIMPLE AS 1, 2, 3!

Innovative electrode system (MCScap)



Soft materials and well-thought design assure patient's comfort during the whole study
Wide size range includes pediatric options
Extended cable allows patients to move around as freely as they used to
Additional ECG and EOG channels provided

Network HD PTZ camera



Up to three cameras working simultaneously
Rotation and zoom control using software
Supports H.264 format for video compression
Automatic day/night mode, IR illumination for up to 10 m distance

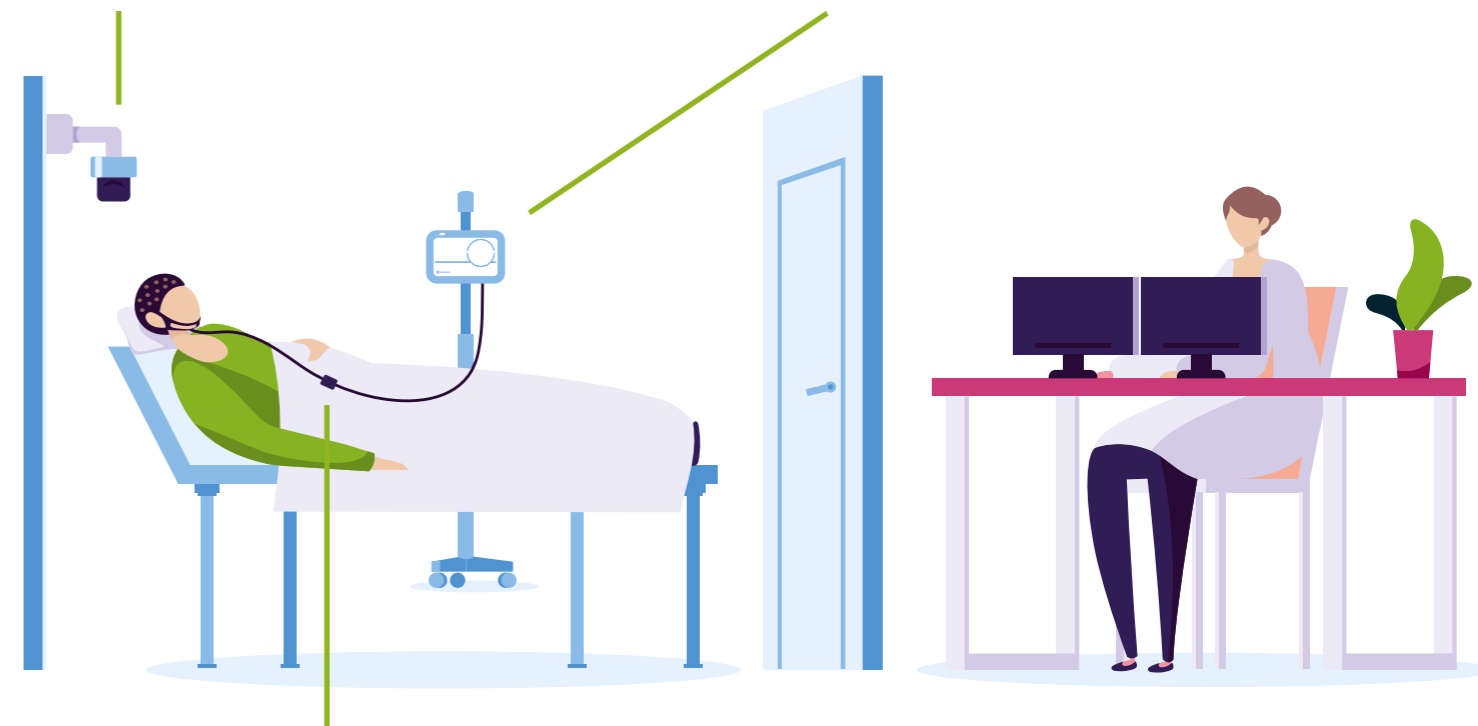
Expert-class EEG system of new generation



Connected to PC via USB or LAN
Continuous impedance monitoring
Unrivaled EEG signal quality

The supplied network cameras with 4xZoom, built-in IR illumination, and a microphone have different mount options (ceiling, wall, tripod, etc.)

The system featuring high sampling rate and low noise level provides premium-quality EEG acquisition under all possible conditions



Thinking of patients' comfort, special cable connecting the electrode cap to the electronic unit is designed to assure their mobility during the study

CLINICAL VIDEO EEG MONITORING

The new generation of Neurosoft inpatient EEG systems brings video EEG and PSG studies to the next level



Proven and portable, Neuron-Spectrum-AM recorder ensures unlimited mobility for the patients and flexibility for the clinics



- high-quality simultaneous EEG and video recording
- trolley-mounted option for truly mobile use (especially in intensive care units)
- full HD, optical zoom, day/night mode, built-in microphone — for perfect video monitoring

- comfort-fit electrode cap
- extended cable for electrode cap connection with additional ECG and EOG inputs
- continuous impedance monitoring during EEG acquisition (online impedance measurement)

- online EEG analysis from the first seconds after acquisition start
- continuous EEG recording for up to three days without battery change
- PSG study with further PSG data analysis*

- localization of the epileptogenic zone during pre-surgical EEG monitoring
- simultaneous data saving onto a removable memory card and transfer over Wi-Fi
- overall remote monitoring using Android application on your smartphone

* if Neuron-Spectrum-PSG module is available

AMBULATORY VIDEO EEG MONITORING



Ultimate portability of Neuron-Spectrum-AM EEG system makes it perfect for video EEG monitoring up to several days long in home environment. No clinic room or medical specialists constantly monitoring the study progress are required. Thereby, ambulatory EEG is more comfortable for a patient and cost-benefit for a clinic while nonetheless effective for ictal event detection.

— Long-term video EEG monitoring for several days

— High definition cameras for studying patients with sleep-related and seizure disorders

— Hot-swapping of batteries with automatic record resume

— Backup of recorded data onto a memory card for extra security and loss protection

— Greater comfort for a patient throughout the study

— Motion-triggered option for video recording

— Patient assistance via Internet, distant signal quality check and analysis right during the study

— Cloud storage of EEG/PSG data for remote review and analysis

MOBILE SOLUTION FOR LONG-TERM VIDEO EEG MONITORING



- trolley-mounted configuration
- all-in-one PC with touchscreen
- smooth trolley height adjustment
- rubber castors with reliable locking mechanism
- ergonomic handles for trolley transportation and spacious drawers for accessories



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