



Digital Versatile Electroencephalograph



EEG - 8102



HIGHLIGHTS



Strong Anti-interference

True EEG Waveforms

High Synchronization and Accuracy

1. High Quality Amplifier with Strong Anti-interference Ability

The amplifier has strong anti-interference ability with features of low input noise, low input bias-current and high common mode rejection ratio (CMRR). The photoelectric isolation technology taken inside the amplifier enhances its security and reliability.

2. True Waveform Data without Excessive Filtering

The combination of pre-amplifier with high DC offset tolerance and software without excessive filtering enables the system to obtain true and reliable waveform data.

3. Video Synchronous Display during Recording and Review

Taking exclusive video processing technology with the software, the video and waveforms can display synchronously without any delay during recording and review.

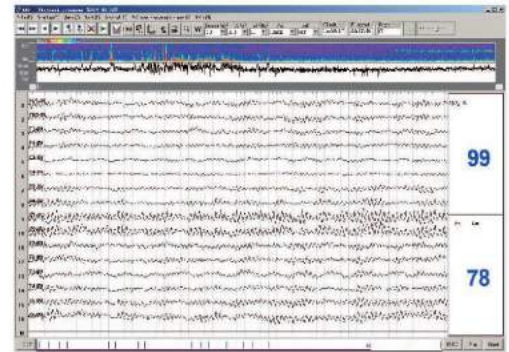
ACCESSORIES



FEATURES

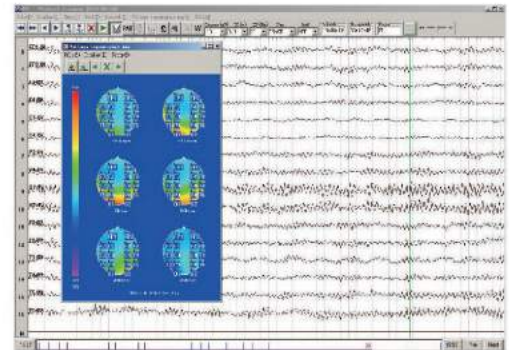
Amplitude-integrated EEG (aEEG) Trend

Up to two channels of amplitude-integrated EEG signal can be displayed simultaneously. The aEEG gives a compressed view of the variation in amplitude of the EEG. The signal is recorded, amplified, filtered and displayed at a certain speed which can be user-defined. The aEEG trend is drawn continuously on the screen to reflect the information on background activity (overall brain function). This technology helps more for observing patient's brain wave change easily and intuitively. It plays an important role for early diagnosis and treatment for neonatal patients with epileptic seizure and ischemia oxygen deficiency encephalopathy.



Density Spectral Array (DSA) Trendgraph

Frequency components of EEG and the amplitudes of each frequency are displayed as a DSA (Density Spectral Array) trendgraph on the review screen. The DSA lets you find epileptic seizures of a specific EEG frequency band over a long period of time. A long term DSA window is also available to show detailed change in the extended trendgraph.

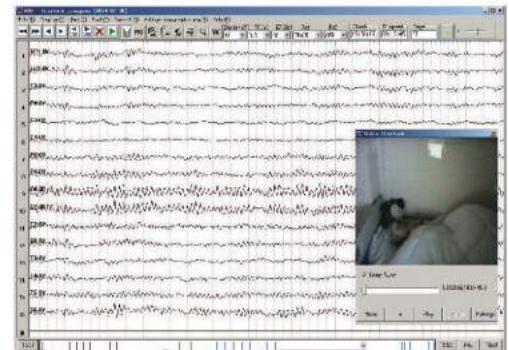


Photic Stimulation

The stimulation frequency and duration are programmable with up to 3 pre-set stimulation modes. Manual mode and automatic modes including single pulse, double pulse and random pulse are available for selection.

EEG Mapping Software

The EEG-8102 includes mapping software which can display the voltage maps of any time pointed by moving cursor and a group of frequency maps by analyzing a range of brain waves using FFT method.



Simultaneously Recording Vital Signs Parameters

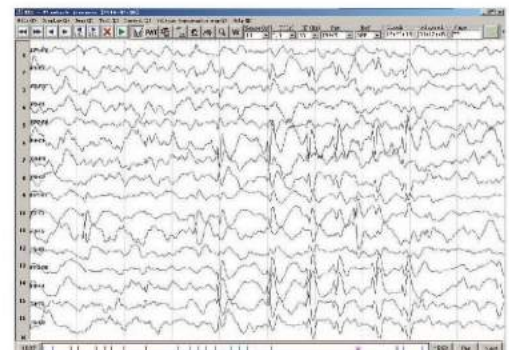
All the EEG electrode signals and other vital signs parameters such as RESP, SpO₂, PR and etc. can be simultaneously displayed and recorded during examination. This enables the system available for not only routine diagnosis, but also sleep study.

Raw Data Storage per Single Electrode

As the raw data is stored per single electrode, channels can be configured and individual or group filter settings can be modified during review.

Easy to Check Channel Impedance

Impedance check can be performed by pressing the button of impedance check on the amplifier, or clicking the button on the screen. Numerical values in Kohms on the screen and the LED lights on the amplifier can show the impedance check result of each channel.



Intelligent Diagnostic Solution Provider On Brain Health Field



EEG - 8102

Digital Versatile Electroencephalograph

The EEG-8102 is a new Electroencephalograph (EEG) system developed by Delica™, the global leading manufacturer specializing in Neuro medical field. It includes functions of configurable 32 channel input, photic stimulation, SpO₂ measurement, and video synchronous display (for option).

The EEG-8102 is a high quality EEG system based on requirements from clinics and scientific research institutes. As the process of converting analog signal to digital signal is performed inside the amplifier before transmitting to PC via USB port, the risk of being interfered by external noise is greatly reduced during data transmission. The software installed on a PC with Microsoft Windows OS is very easy to use.

The EEG-8102 system is daily applied on patients with disordered brain function diseases and used in a range of services such as neurology, circulation, respiratory, endocrinology, and gastroenterology for diagnosis and long-time monitoring.



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