

Products

AEEG AMBULATORY EEG SYSTEM



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The new **NS-EEG-D1-W** is a professional digital AEEG device available in 16/24/32/64 channels. This device has a compact design making it portable and can be easily carried while also having low power consumption making it capable of supporting up to 72 hours recording with four AA batteries.

This device is suitable for all standard applications of routine EEG and long-term EEG monitoring. Supports real-time EEG waveform recording and display via Wi-Fi and dynamic recording with Flash memory card.



- Routine EEG
- Long-term EEG Monitoring

- CHANNELS
- 16
 - 24
 - 32
 - 64

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Technical Specifications

Dimensions & Weights	
Size	130 x 89 X 40 mm
Amplifier Weight	250 g (approx)
Power Supply	
Power	4 – AA batteries
Operation Time	
Duration	Up to 72 hours
Performance	
Input Impedance	≥ 1000MΩ
Noise level	<0.4μV (rms)
CMRR	≥ 110dB
Resistance polarization voltage	± 300mV
Frequency characteristics	0.5Hz – 10KHz, error of +5% – -30%
Channel Configuration	16/24/32/64 channel EEG, where 8 channels can custom functionality: EEG, ECG, Eye movement, etc.
Sampling Frequency	128Hz, 256Hz, 512Hz, 1KHz, 2KHz, 4KHz, 8KHz
Precision Sampling Resolution	16/24bit
Digital Low-pass Filter Control	15Hz, 30Hz, 40Hz, 60Hz, 120Hz, 250Hz, 1KHz, 3KHz, etc.
Digital Time Constant Control	0.01s, 0.02s, 0.03s, 0.1s, 0.2s, 0.3s, 1s, 2s, 3s, etc.
Amplification	1 – 10,000 times

Functions

1. Routine EEG
2. Long-term EEG Monitoring

AEEG Amplifier Features

AEEG Amplifier Features

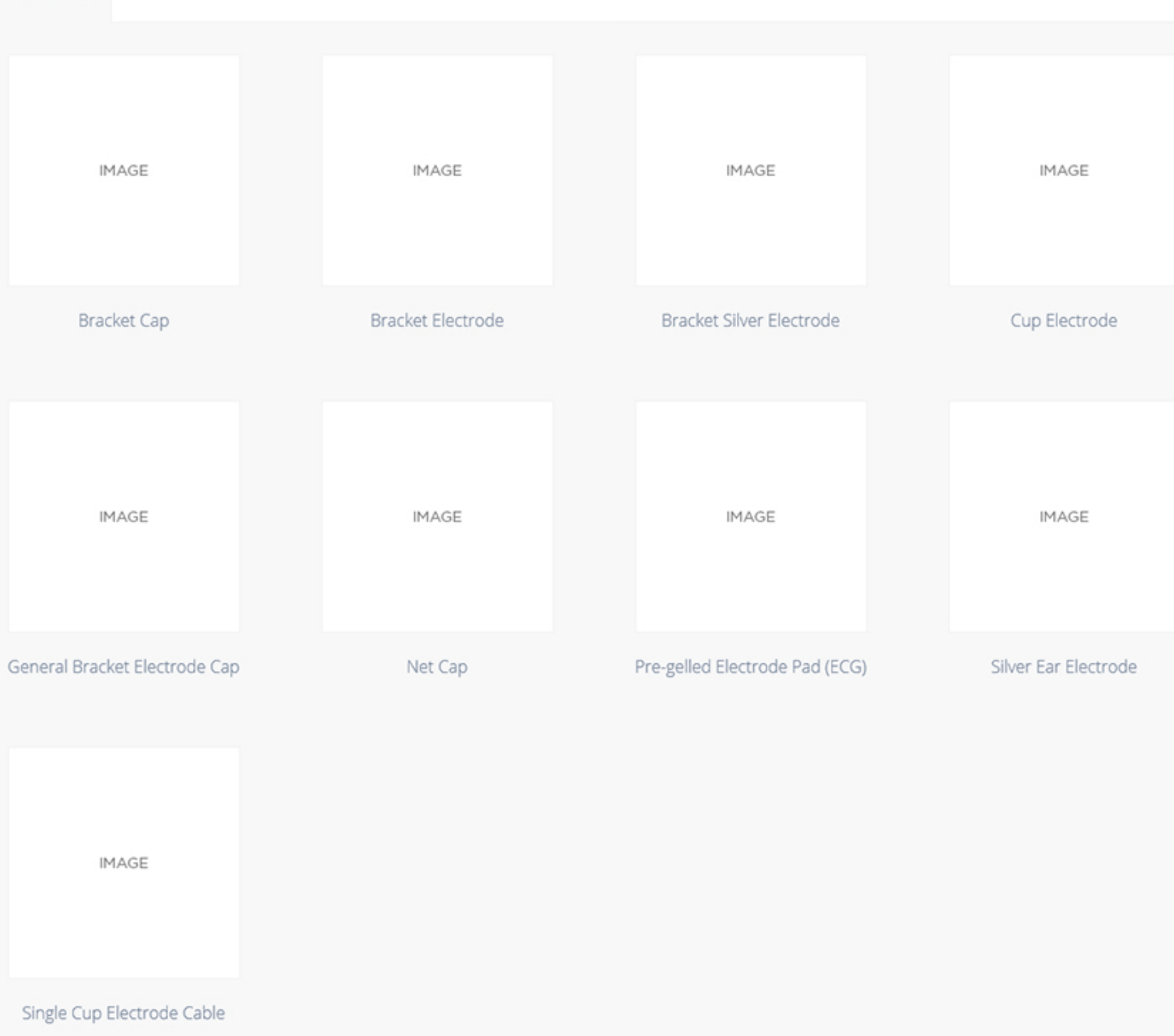
Integrated Functions:

- Signal magnification
- A/D transform
- Data storage
- LCD display
- Wi-Fi Data Transmission

Displays:

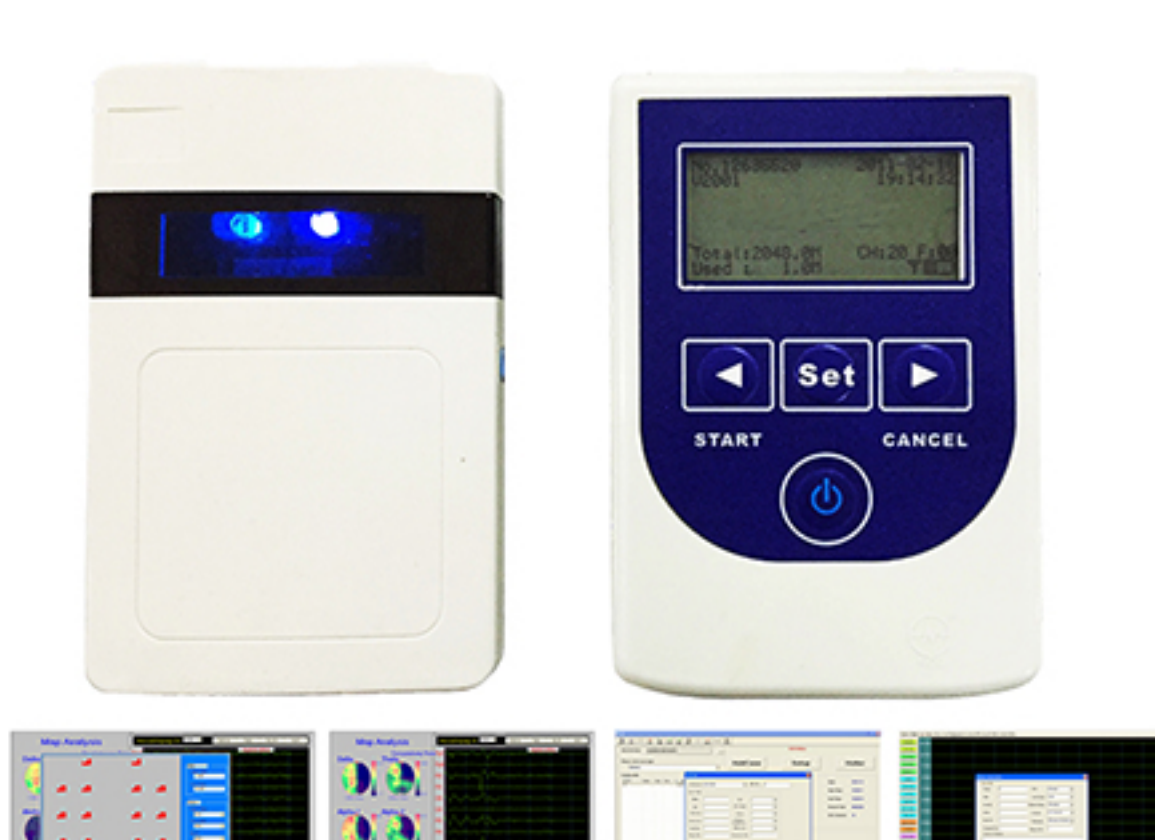
- One channel waveform
- Present Time
- Collection Time
- Storage Capacity
- Version Information
- Battery Status

Accessories



System Key Features

- Compact design – portable and easy to carry
- Complete with EEG isolation – support maximum patient movement without distortion
- User-friendly operation
- Low power consumption – capable of supporting up to 72 hours recording with four AA batteries
- Supports real-time EEG waveform recording and display via Wi-Fi
- Dynamic recording with Flash memory card
- All-in-one electrode cable for easy connection
- Use of DC power supply
 - Eliminates risk of electric shock to patients
 - Prevents signal interference
 - Removes the need to use ground wire or other shielding features
- Fast data uploading capability – stored data in Flash memory card can be quickly transferred to computer through USB 2.0/USB 1.1 Interface
- Optional video system – Recording, Editing and Displaying of video synchronously with EEG signals



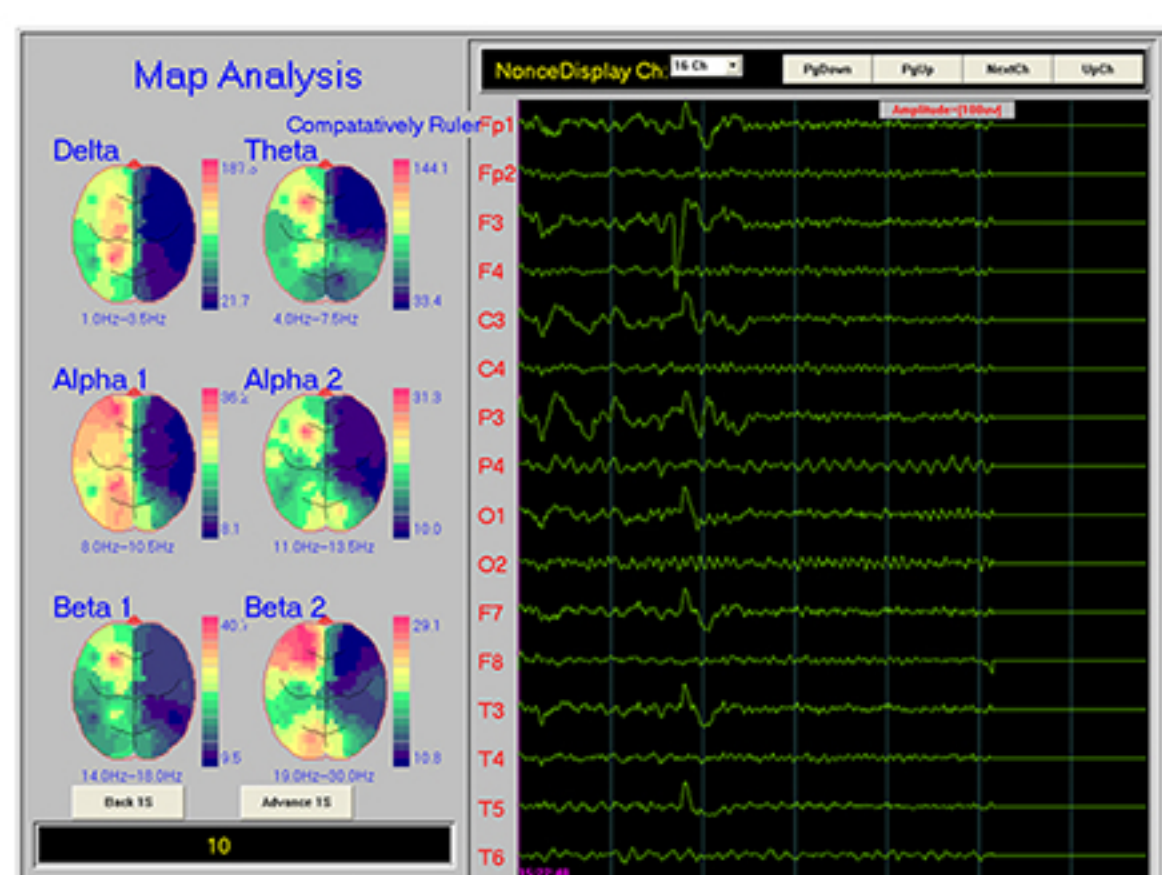
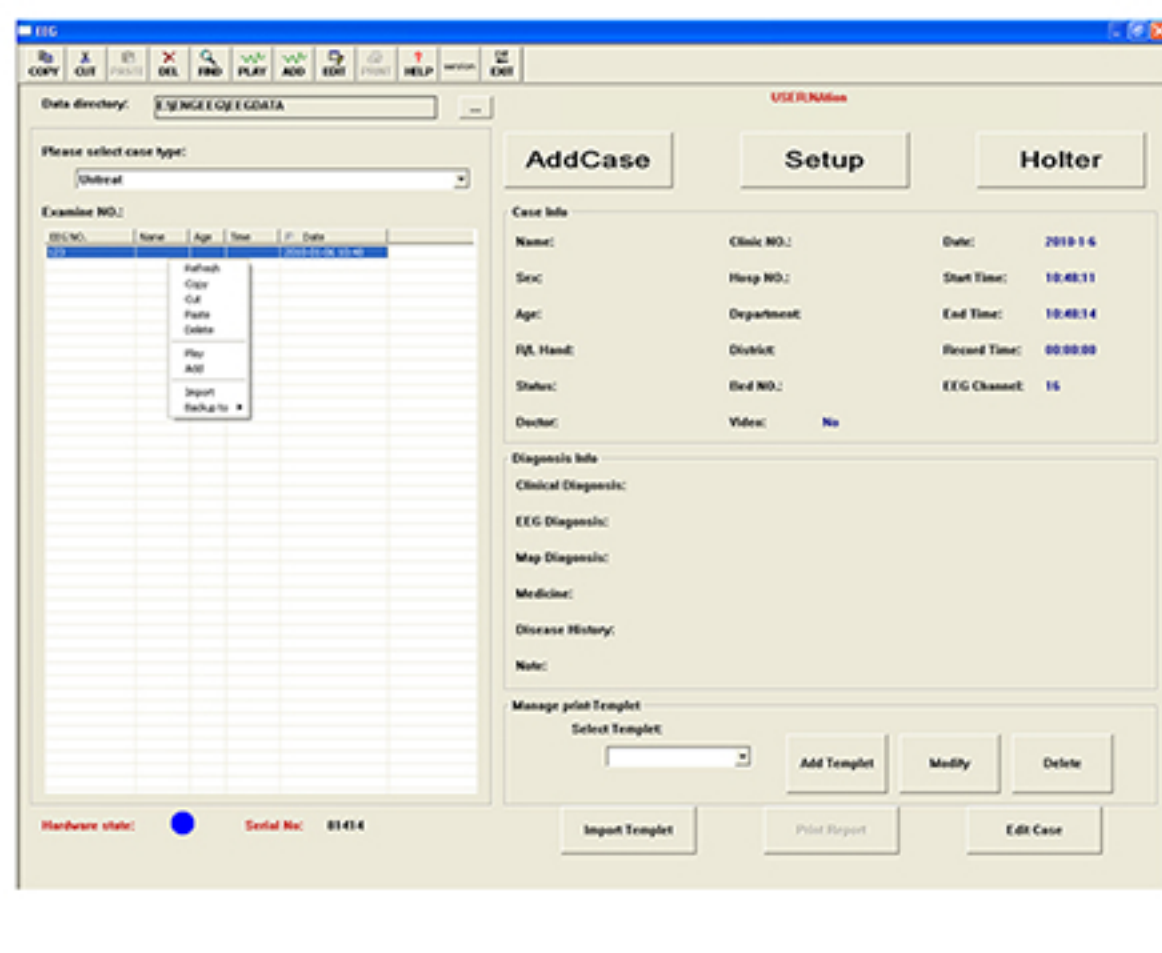
Software Features

Acquisition & Settings

- Color of waveforms in accord to color of events
- Users can mark waveforms directly with characters
- EEG channels can be arbitrarily set-up – customizable channels layout during collection process and playback analysis
- Channel editing – Simpler and more intuitive
- Events markers during recording – for timing of seizures and abnormal wave occurrences
- Event localization feature during playback – marked events are listed and can be traced
- Real-time brain tendency chart synchronized with EEG waveforms acquisition
- Brain tendency chart:
 - Energy curve
 - Peak value frequency
 - Relative Energy
 - Absolute Energy
 - Energy peak frequency
 - Medium frequency index
 - Side frequency index
 - Coma index

Replay & Analysis

- EEG Mapping
- EEG Spectral Analysis
- EEG Synchrony Analysis
- Brain waves fast playback and fast positioning function
- Automatic spike recognition with adjustable spike-wave parameters
- User can review EEG waveforms with different combination of parameters and filters
- Automatically generates EEG case reports
- Customizable print templates



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