

NATION EEG SYSTEM

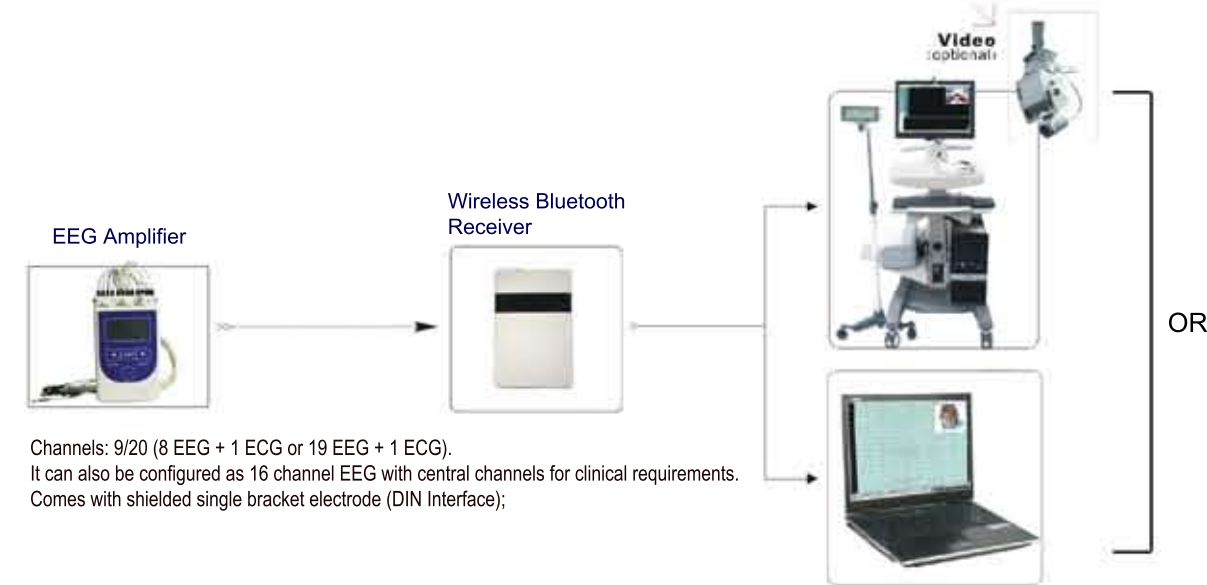
The New Wireless EEG/PSG EEG with ERP

- Anti-interference
- High accuracy
- Configurable



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Brilian HighTech
Your Trusted Medical Equipment Supplier

Wireless EEG Model: 7128W / 7128WH



Channels: 9/20 (8 EEG + 1 ECG or 19 EEG + 1 ECG).
It can also be configured as 16 channel EEG with central channels for clinical requirements.
Comes with shielded single bracket electrode (DIN Interface);

Features & Advantages

Main Features

- Professional EEG amplifier integrated all the functions of signal magnification, A/D transform, data storage, LCD display and wireless transmission. It can also show one channel waveform (arbitrarily and adjustable), present time, collection time, storage capacity, version information, serial number and battery status.
- Wireless Bluetooth connection between patient and computer not only offers real-time waveform display, but also realize freedom of movement for patient and completely eliminates interference from AC power supply when wired connection is used.
- Without the need for ground wire, this device is suitable for various examination environment.
- 6V DC power supply for the amplifier eliminates the risk of electrocution to the patient.
- Modular design provides easy clinical application, transportation and installation.
- Choice between intraoperative deep electrode or subdural electrode to process IOM.
- Event button on the amplifier enables accurate marking of patient's epilepsy seizure.

Optional Features

AEEG Dynamic Recording

- AEEG with flash memory card or SD card of 2GB memory can record and store 72 hours of EEG data with lithium battery power supply, which can be uploaded into computer via USB2.0 / USB1.1 interface.

Video System

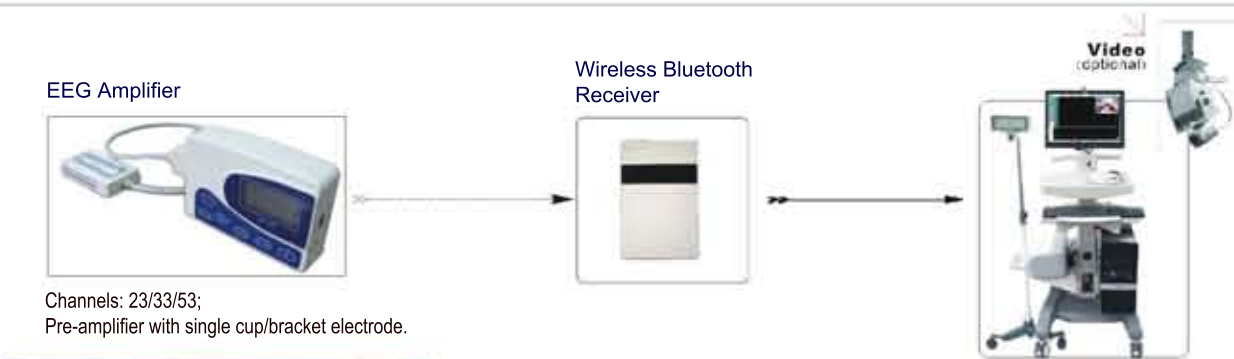
- DSPX550 Power ZOOM Camera from CHAMPION, capable of zooming up to 220 times focal length.
- Synchronous recording, editing and displaying of video and EEG signals
- Video image stored with MPEG4 compress method with 320*240 resolution (uses less than 2GB for 24 hours of video images), and is printable with EEG analysis report.

Flash Stimulator

- Useful in evoking patient's epilepsy seizure.
- Works simultaneously with EEG, and its frequency can be set arbitrarily between 1 to 30 Hz.



Wireless Sleep Monitoring System Model: 7128WH



Channels: 23/33/53;
Pre-amplifier with single cup/bracket electrode.

Features & Advantages

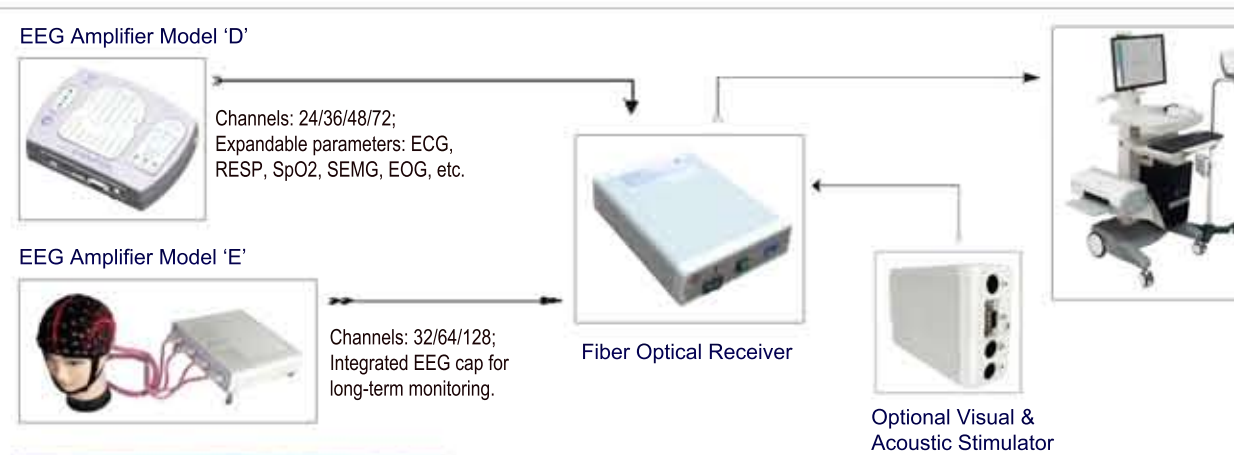
Main Features

- 10-40 channels EEG and 13 channels polysomnography parameters: ECG (7 leads), Resp (2 leads), Airflow (1 lead), EOG (1 lead), EMG (1 lead), and Snore (1 lead).
- Professional EEG amplifier integrating all the functions of signal magnification, A/D transform, data storage, LCD display and wireless transmission. It also can show one channel waveform (arbitrary and adjustable), present time, collection time, storage capacity, version information, serial number and battery status.
- Wireless bluetooth transmission used for real-time EEG signal acquisition, which enhances the anti-interference ability, and removes the need to use ground wire or other shield measure.
- Long-term ambulatory monitoring with plug and play SD card (at least 2GB memory); EEG data stored within can be uploaded into computer via USB port.
- Pre-amplifier is designed to have spare channel for flexible replacement of any channel.
- Integrated EEG amplifier has 4~8 expandable channels usable for central leads, EOG, sphenoid electrodes, etc.

Optional Features

- Video System
- Flash Stimulator

EEG with ERP (Event Related Potential) Model: 7128W



Features & Advantages

Main Features

- High accuracy EEG for clinical and research applications.
- 24-bit precision, high-speed fiber optical data transmission and AC isolation technique to ensure accuracy and non-interference of data;
- Embedded impedance testing displaying contact status between electrode and patient's scalp.

Optional Features

- ERP System with Acoustic & Visual stimulators.
- Video System

EEG Software

Setting & Acquisition

EEG Case Management Module

- Enables easy access, editing and classification preservation of case waveforms according to disease types.
- Case report templates can be set to satisfy different hospital requirements.

EEG System Setting Module

- Enables customization, including waveform display ratio based on actual screen size, and additional information during case registration.

Channel Setting Module

- Customize EEG channels arbitrarily e.g. monopolar channel, bipolar channel, tripolar channel, etc. according to the EEG information needed. These channels can be arbitrarily switched during the acquisition process as well.

Dynamic Data Operation Module

- Records data acquired via the optional dynamic recording feature using the USB HDMI cable.
- All EEG data uploaded go through filtering and baseline processing automatically.

EEG Data Acquisition Module

- Customize this module by arbitrarily switching channel layout, adjusting filter parameters, adding events, setting flash stimulation, etc.
- For the Wireless Sleep Monitoring System, this module can synchronously display brain tendency chart with EEG waveforms acquired in real-time. It can also display multi-parameter tendency graph during data collection, including SpO2, NIBP, temperature, etc.

Playback & Analysis

EEG Playback Module

- EEG report printing (Video image can be included)
- Automatic spike recognition, where the spike wave parameters can be set arbitrarily.
- Switch channel layout during playback with different filter re-treatment.
- Synchronized playback and edit function of EEG waveforms and video image.

Map Analysis Module

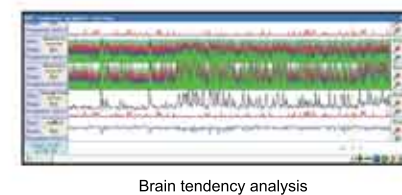
- EEG spectrum analysis using curve graph, percentage graph, histogram and digital map to display full channel spectrogram, and to print the spectrogram analysis report of percentage graph, histogram, and digital map.
- Display energy map of EEG map pursue frequency manually or automatically.

Spike Wave Map Analysis Module

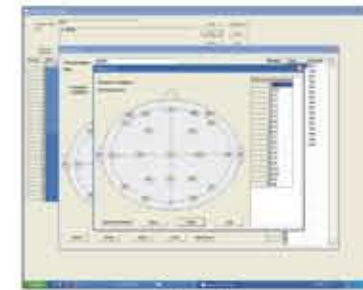
- Analysis of spike wave equipotential in order to show the voltage level of the spike wave on the skull surface at different times.

Sleep Analysis Module (Wireless Sleep Monitoring System Only)

- Automatic sleep staging;
- Breath analysis and report;
- Automatic generation of sleep analysis report;
- EEG tendency analysis and report.



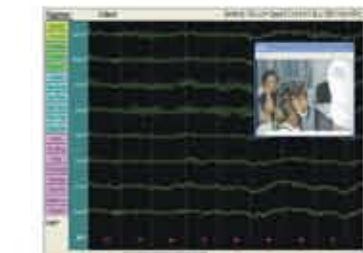
Brain tendency analysis



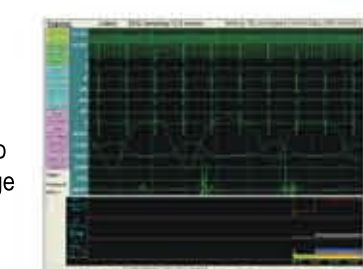
Channel edit



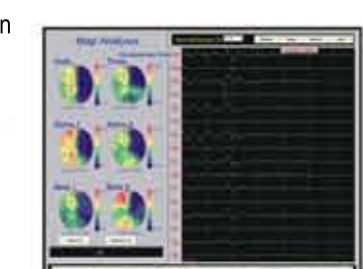
Data uploading



EEG data collection (Synchronized with video)



Real-time brain function tendency chart



Map Analysis



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