EEG

NS-EEG-D-1 delivers high quality EEG signals through state-of-the-art hardware and software design, built-in impedance test module and anti-interference data transmission technology.

This device can be used for routine EEG, event-related potential (ERP) data acquisition and analysis, as well as professional sleep monitoring using polysomnography (PSG) for medical and research institutions.

I. Routine EEG

System Key Features:

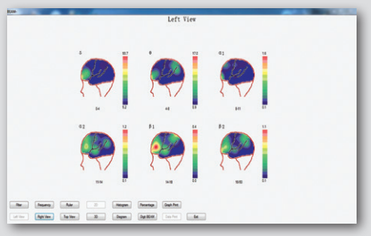
1. High quality signal couple with optical fibre isolation
2. DC battery power operation eliminates AC power line interference
3. Sampling rate up to 8 kHz
4. Built-in impedance testing function
5. Ergonomically designed single shielded cup/clip electrodes with touch-proof connectors (1.5mm)
6. Choice of different configurations:
   a. 24/32/48/60 channels unipolar EEG
   b. 12 channels bipolar EEG
   c. Synchronous acquisition, editing and display of EEG and video signals

Software Key Features:

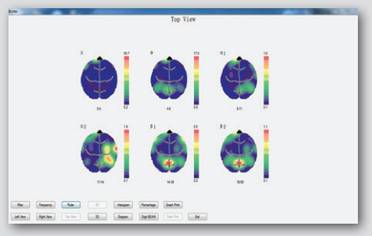
A. Acquisition & settings
- User-friendly interface
- Intuitive editing
- Multiple selections of instant events and long time events

B. Review & analysis
- Viewing of Individual EEG waveform during review phase
- EEG mapping, EEG tendency analysis, EEG spectral analysis
- Automatic spike recognition and spike-wave arbitrary setting functions
- Rapid event search and playback of abnormal wave occurrences
- Automatic report generation

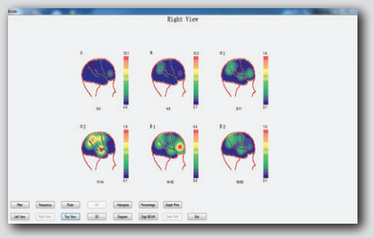
EEG Mapping



Left View



Top View



Right View

Accesories:

A. Shielded single disc electrode cable, shielded single bracket electrode cable, etc.
B. Split-type EEG cap (23holes/51holes), electrode cable for split-type EEG
C. Optional parts:
   - Video System: Real-time software-video synchronisation
   - Photic stimulator: Stimulation Frequency: 1-30Hz

EEG Controller

Stimulator

Fibre Optic Cable

EEG Electrode Cable

II. EEG-PSG

This subtype provides Polysomnography (PSG) recording capability on top of routine EEG examination.

PSG Key Features:

1. Synchronised EEG examination and PSG recording enable for more sophisticated clinical applications
2. Multiple channels available for PSG recording:
   a. EOG b. Air flow c. Snoring d. ECG
   e. EMG f. SpO_2 g. Thoracic and Abdominal Respiration
3. Respiration leading tone is featured to guide patient's respiration frequency during deep respiration events

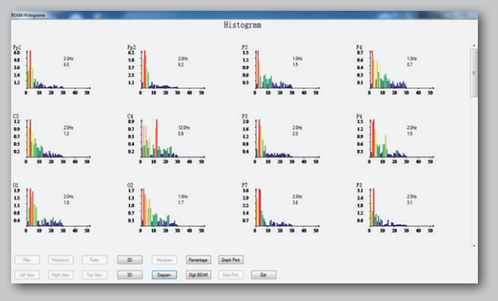
III. EEG-ERP

This subtype provides event related potential (ERP) for examination of recognition ability of patients on top of routine EEG examination.

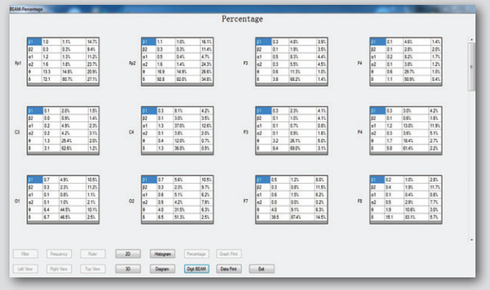
ERP Key Features:

1. Choice of acoustic, visual and current stimulation
2. ERP recognition potentials comprising of P300
3. Stimulation synchronised with EEG waveform acquisition and configurable stimulations parameters and patterns
4. ERP data averaging function for better case assessment
5. Diversified data measurement tools for ERP latent period and amplitude measurement
6. Multiple ERP(s) available to be replayed and compared concurrently

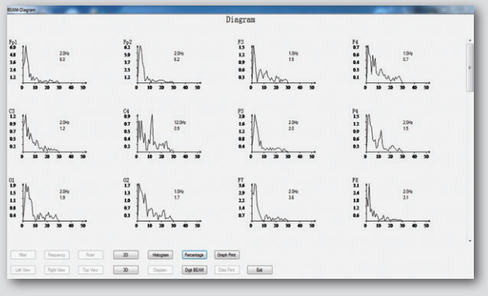
EEG BEAM Histogram



EEG BEAM Percentage Table



EEG BEAM Line Graph



EEG Digital BEAM Table