

KT88-1018 18-Channel Handheld Digital EEG Map Of Brain Biofeedback Electroencephalography Monitor

KT88 1018 is Digital Brain Electric Activity Mapping System that can check 16-lead EEG and 2-lead ECG(optional), it collects EEG signal with electrodes and forms electroencephalogram which displays by color depth via integrated amplification, A/D transformation, PC auto-analysis and FFT. The product is applicable for checking diseases such as epilepsy, intracranial inflammation, cerebrovascular diseases and brain tumors etc.

Performance

- Numbers of channels: 16 channels of EEG+2 channels of ECG (ECG is optional)
- Speed of sampling: 100 Hz/sec.
- Precision of sampling: 12 bit
- Input impedance: $\geq 10M\Omega$
- Patient leak current: $< 10\mu A$
- Level of noise: $\leq 5\mu V$ Vp-p
- CMRR: $\geq 90dB$
- Magnifying multiple: 10000
- Filtering constant: all digital and set freely
- Speed of displaying(printing speed): 5, 10, 15, 30, 60, 120 mm/s
- Displaying gain: 1, 2, 5, 10, 12, 15, 20 mm/50uv
- Speed of playback: 1 time, 2 times, 3 times, 10 times, 20 times, 40 times, 60 times
- 50Hz interference suppression ratio: $\geq 30dB$
- Safety type: class II, type BF applied part

Features

- Standard 16 leads of EEG, compatible with 16 leads and 8 leads function. Method of 10/20 electrodes placement under international standard system, can change leads ways while replaying, and set electrode connection mode at will.
- Using bioelectricity amplifier brainwave, consecutive record time can be up to 24 hours, integrated automatic calibration system.
- Powerful playback function: It is adjustable for the amplitude and replaying rate. The special subdividing time line divides the waveform in one second into 5 parts and easy for the doctors to look over the waveform
- Multifunctional digital filter system can be set freely and provides many filtering methods.
- EEG signal clipping function,clipping any a section of EEG wave to

analyze and store, clipping multi-section waves to perform multi-parameter analysis and pick-up automatically.

■ Analyze and distill manifold parameters automatically. Choose and analyze many segments of wave at the same time

■ Electronic frequency ruler, convenient to measure the basic information of any appointed EEG waves. Sectional enlarging window, which can be adjusted by yourself, is provided to increase the accuracy of EEG period /amplitude /frequency measurement

■ Mark event (opening eyes, closing eyes and flashing) EEG with different colors, and name the user-defined event. Color of background and waveform occurred by different event is adjustable. It is able to depend on the event's name to locate speedily the waveform of the corresponding time.

■ Powerful automatic analysis function, can carry through the power spectrum analysis and pathologic wave detection for appointed waveform. Sorts of graph can be displayed in the same screen, including kinds of BEAM, numerical BEAM, compressed spectrum graph, trend graph, and so on.

■ Professional isolation transformer, dual power supply isolation system and optoelectronic data transmission to ensure security. Use USB interface to transmit data which just need to be inserted. Distance of digital signal transmission is up to a maximum of 30 meters. Patients and doctors can be operated in different rooms.

■ Multifunctional flashlight of USB interface, and frequency can be controlled manually or automatically. A flashlight stimulus scheme can be set and performed in the process of collection.

■ Perfect case management, multi-method of information query and quick statistics means, convenient case input and output function, supporting MO or CD-RW store, which is easy for data research.

■ The report of picture and character integration, can be edited in mode and changed into Word.

■ The case can be transformed into the EDF data format, which is convenient for the data interchange, academic exchanges and further analysis.

■ System setup function, multi-function, such as display mode, system parameters, etc., can be set to meet the users' special need.

■ Mark positioning function: add the mark and note for the waveform of appointed time, and locate speedily the waveform at the mark time.

Optional Function (not included, you should buy it if you need):

■ Video Function: USB CCD camera is easy to install, convenient to use and exact to record. With agile playback function, it can be used to replay the waveform of any time along with the corresponding isochronous image.

Accessories:

■ Twenty EEG Leads

■ Two Data Lines

- Twenty EEG Electrodes
- Two Headgears
- One Flashlight
- One Flashlight Power Supply
- One Software Disk
- One User Manual
- One Earth Wire
- Two Brackets