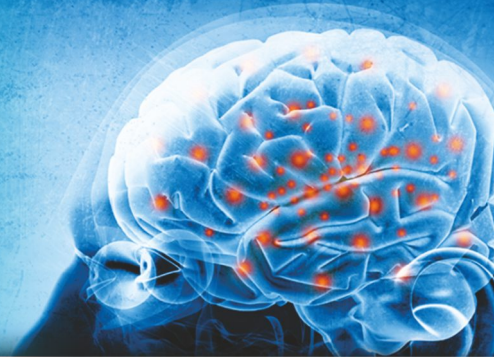


Allengers

Passion for excellence



User Interface with
Outstanding Signal Quality ...



Neuroplot
Electroencephalograph

Neuroplot - HIGH GRADE ELECTROENCEPHALOGRAPH

Allengers NeuroPLOT is a Windows laptop/PC based electroencephalograph that is efficient and easy to use with DSA trendgraph, brain mapping, high performance such as less susceptibility to artifact and a USB electrode junction box.

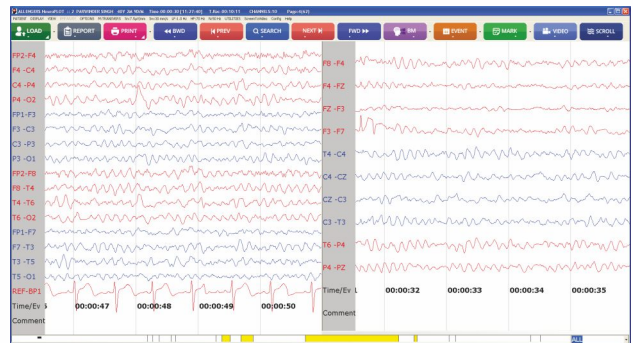
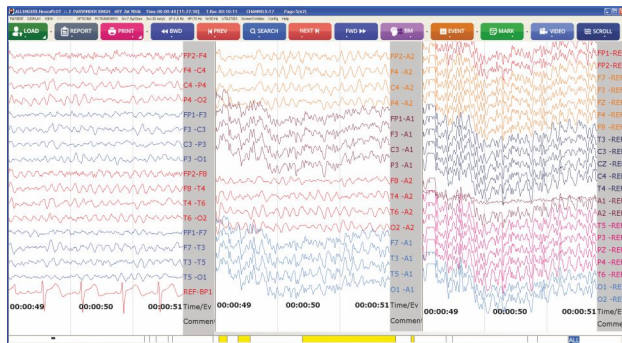
The biggest USP of Allengers NeuroPLOT is the state of the art 24 bit ADC having highly advanced capabilities like multiple sampling rate, bed side impedance with LED ring around the electrode.

Allengers electroencephalographs are highly admired for their performance and you will surely be satisfied with the results of the EEG testing with NeuroPLOT.

With superb performance, Allengers has established itself as the leading manufacturer of electroencephalographs. NeuroPLOT has the high level function you need in the EEG lab, ICU or OR for doctors and technicians.

ACCURATE AND RELIABLE EEG RECORDING

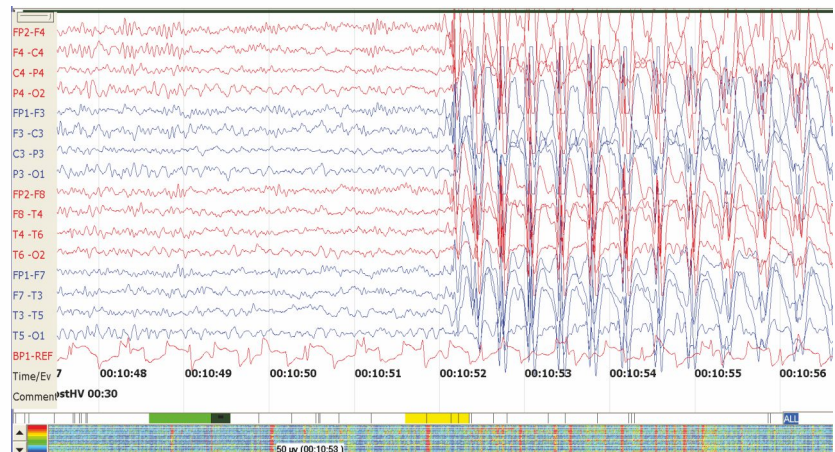
Comparison Mode: Split screen function lets you look back and review EEG in different montage settings like amplitude, filters, time duration etc. in comparison with 2 or 3 split windows. One side of split screen shows complete independent EEG from the other side of EEG.



EFFICIENT USER-INTERFACE FOR ANY EEG TESTING

Frequency components of EEG and the amplitudes of each frequency are displayed as a DDA (Dot Density Array) trend graph on the review screen and EEG scope. The DDA lets you find epileptic seizures of a specific EEG frequency band and amplitude over a long period of time at a glance. Entire record of any duration be it 3 minutes, 30 minutes, 3 hours or 3 days or even more ! can be displayed in this DDA.

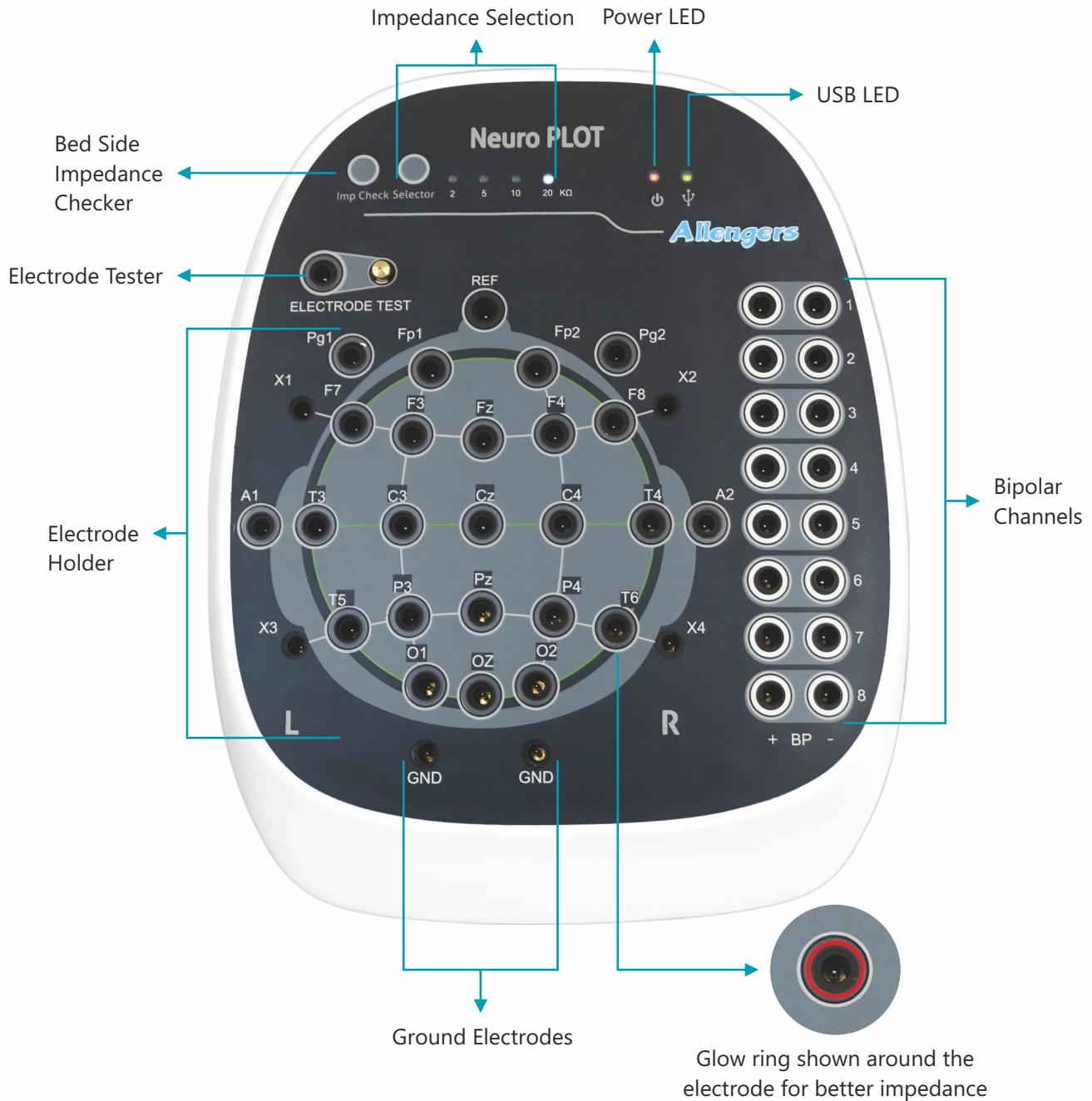
A mark indicates where the frequency component and amplitude of the waveform suddenly changes to high seizure region. Red shows the highest while blue shows the lowest.



ULTRA MODERN ELECTRODE HEADBOX

All-in-one solution : One headbox for routine EEG as well as long term EEG

This advanced headbox integrates 28 channels EEG, 8 Bipolar Channels and 4 Aux/DC inputs. It has unique LED ring around the electrode for better impedance analysis



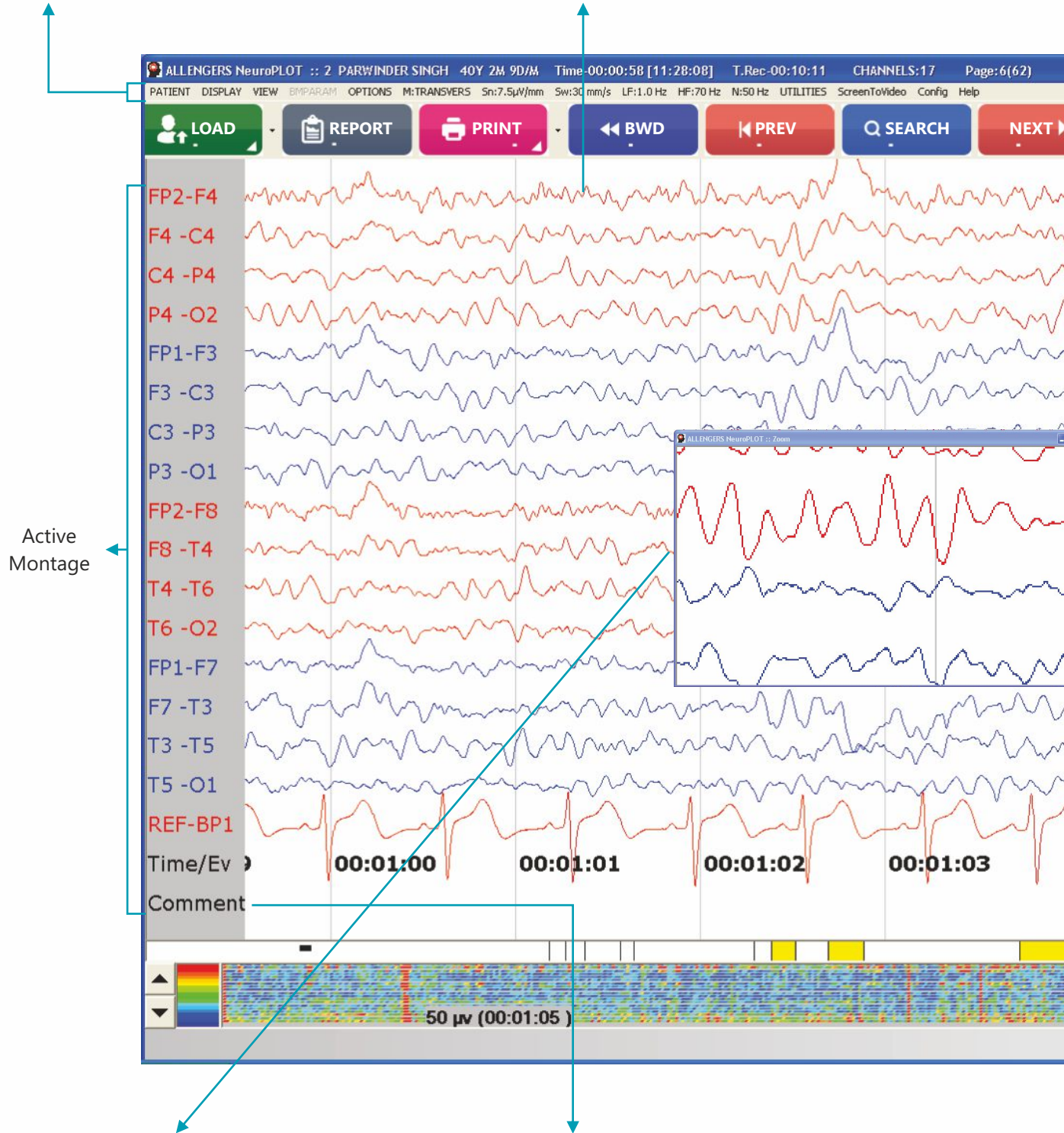
Superior Features :

- 24 bit Analog to Digital Conversion (ADC).
- Multiple sampling rate : 256, 512, 1024 at ADC and storage.
- Bed side impedance on head box.
- Impedance selection and ON/OFF from head box as well as in EEG PC software.
- 1920 x 1080 full HD display resolution.
- Printout on A3 and A4 size paper.
- Video recording of 2 camera's simultaneously (optional).

1080p Full HD DISPLAY RESOLUTION WITH

Customizable 64 trace display : upto 64 traces, time & comments and 5 minutes of EEG can be displayed for easier recognition and comparison.

Menu Bar

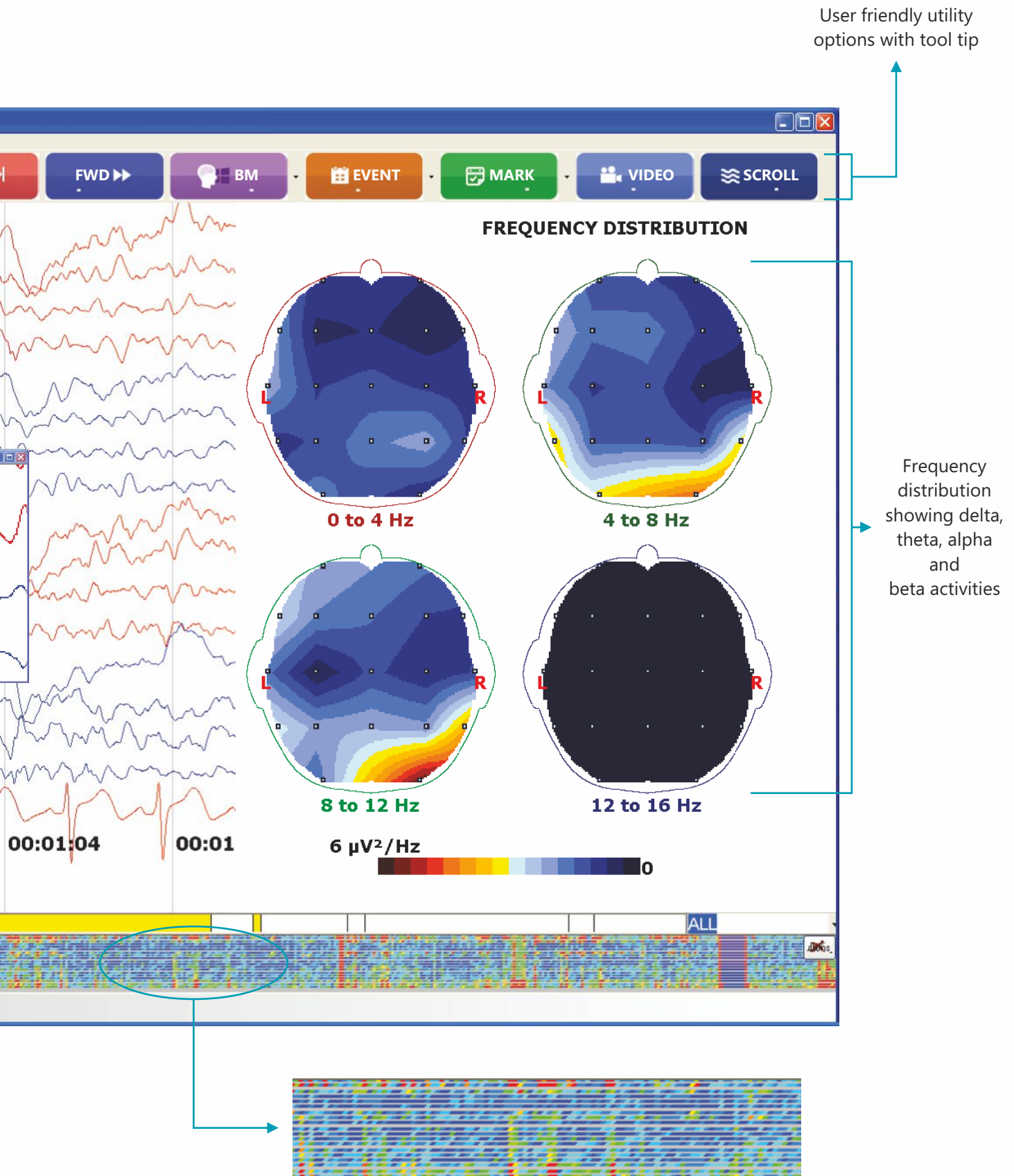


Active Montage

Zoom Window : easily magnify the waveform by moving the mouse cursor and zoomed image will be shown in zoom window.

User can add comments / observation

CUSTOMIZABLE 64 TRACE DISPLAY



Frequency components of EEG and the amplitudes of each frequency are displayed as a DDA (Dot Density Array) trend graph on the review screen and EEG scope.

DIGITAL VIDEO SOFTWARE

Synchronized digital video for EEG systems

- Patient video synchronized with the EEG waveforms can be recorded.
- The EEG waveforms can be saved in a hard disk.
- A "SnapShot" function is also available.

ANALYSIS SOFTWARE

Review, mapping, remontaging, filtering and FFT

- Voltage and current source density mapping.
- FFT frequency analysis and frequency and phase mapping.
- Coherence Analysis.
- Spike and seizure detection.

ADVANCED VOLTAGE MAPPING

Fast review and advanced EEG analysis

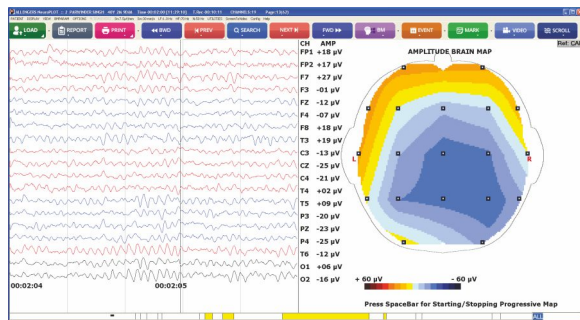
Whole head maps provide a complete overview and a better interpretation of the topography of EEG abnormalities. Just select the region to obtain the head maps. Click on a particular view to obtain a series of maps showing the change over time.

- Hemispherical comparison with left view, right view, top view.
- Frequency spectra with Peak Power Frequency (PPF), Spectral Edge Frequency (SEF), Median Power Frequency (MPF).
- Successive amplitude brain maps with different views with 8 mSec interval.

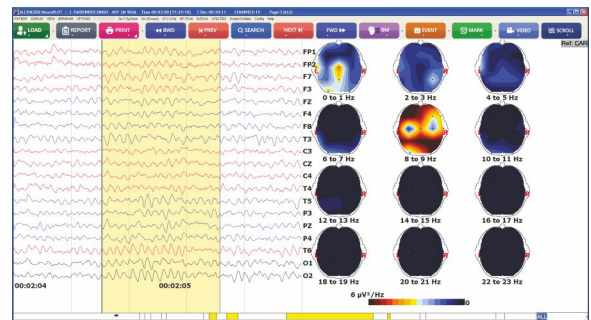


EEG AUTORUN CD

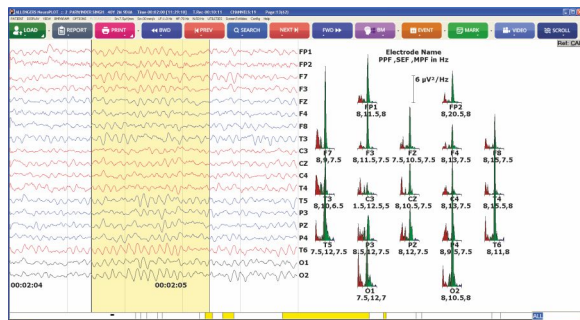
- Review EEG data and patient files anywhere without special software.
- Re-format and re-filter EEG data on your PC.



Amplitude Brain Map



Frequency progressive with 12 brain maps covering various frequencies



Frequency table with frequency range, Absolute Power, Relative Power, Peak Power Frequency (PPF), Mean Power Frequency (MPF) with option of choosing reference between Common Average Reference (CAR), Linked Ear, A1, A2.

SALIENT FEATURES

- Light weight and compact amplifier comfortable for adults and pediatrics.
- Unlimited number of montages.
- Irregular heart beat analysis software.
- Power spectra, coherence.
- Facility to send EEG data through e-mail.
- Video recording of 2 camera's simultaneously (optional).
- Synchronized high-resolution MPEG-4 video.
- Flexible Photic Stimulator based on high intensity LED's.
- Unlimited continuous recording along with video (optional).
- Facility to reformat of gain, filter and sweep speed online/offline.
- Record and review EEG simultaneously.
- Split screen facility for viewing channels simultaneously comprising three different montages at the same time.
- Amplitude integrated EEG (aEEG).
- Facility to measure amplitude and frequency at any portion of EEG.
- Different types of brain map e.g. tri map, frequency distribution, spectra, frequency table etc.
- Report can be transfer to HL7.
- Facility to record EEG in media player format for presentations.
- Work on all MS Windows platforms 32 bit & 64 bit.
- Inbuilt European Date Format (EDF) converter.
- Online support/Online update/Print to PDF/Email PDF through software only.
- Optional SpO2, HR and Pleth recording facility.
- Digitally Certified software and drivers from Microsoft Authorized Certifying Authority to ensure reliability and security.
- Facility to send EEG data in DICOM format to PACS Server.
- Facility to export data to MATLAB/LAB View or compatible software.
- Online and offline video zooming facility.
- Dot Density Array (Amplitude based DSA bar) in color coded format for fast data retrieval.
- Print preview of pages marked for printing.
- Facility to write the data on Autorun CD/DVD.
- Facility of Auto spike detection.

TECHNICAL SPECIFICATIONS

DATA ACQUISITION

- Number of Channels : 40 (EEG 28, Bipolar 8, DC 4)
- EEG Recording : Raw
- Input Impedance : >1000M Ω
- Internal Noise Level : <1 μ V P-P
- CMRR : >120dB
- Multiple Sampling Rate : 256, 512, 1024 at ADC and Storage
- ADC : 24 bit
- Frequency Response : 0.1 Hz to 100 Hz
- Interface : USB
- Input power supply : 1 ϕ , 100 to 240 V AC, 50/60Hz

DATA PROCESSING

- Sensitivity : 1, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300, 500, 750, 1000 μ V/mm and user defined
- Low-Cut Filter : 0.1 Hz (1.6 sec), 0.3 Hz (0.53 sec), 0.5 Hz (0.32 sec), 1.0 Hz (0.16 sec), 3.0 Hz (0.053 sec), 5.0 Hz (0.032sec), 6.0 Hz and user defined
- High-Cut Filter : 0.1, 0.3, 0.5, 2, 5, 10, 15, 35, 70 and user defined
- Notch Filter : 50 , 60 Hz and On / Off Facility
- Calibration Level : 4, 8, 16, 24, 32 μ V
- Impedance Check : Display on screen as well as on HeadBox
- Montages : Unlimited no. of display montages
- Marking Signals : Photic stimulation, Hyperventilation, External Event Mark
- Sweep Speed : 0.9375, 1.875, 3.75, 7.5, 15, 30, 60, 150, 300 mm/sec (320, 160, 80, 40, 20, 10, 5, 2, 1 seconds data/page)
- Hyperventilation Period : Stimulation period 0, 1, 2, 3, 4, or 5 minutes (1, 2, 3, 4, 5 Auto Stop After Minutes and shift to Post HV)

PHOTIC STIMULATION

- Stimulation Mode : 2 Modes 25 steps programmable & Single
- Mode of operation : Auto / Manual
- Stimulation Rate : 1 to 60 Hz
- Stimulation Period : 1 to 60 seconds
- Light Source : High intensity white LED's with 60 to 80 candela light

DISPLAY

- Graphic Signal Resolution : 1920 x 1080 full HD
- No. of Display Channels : Upto 64 channels
- Display Modes : Overwrite and page-by-page
- Waveform Display Color : Any
- Waveform Display On/Off : Yes
- Waveform Freeze : Yes
- Event Marking : Yes

