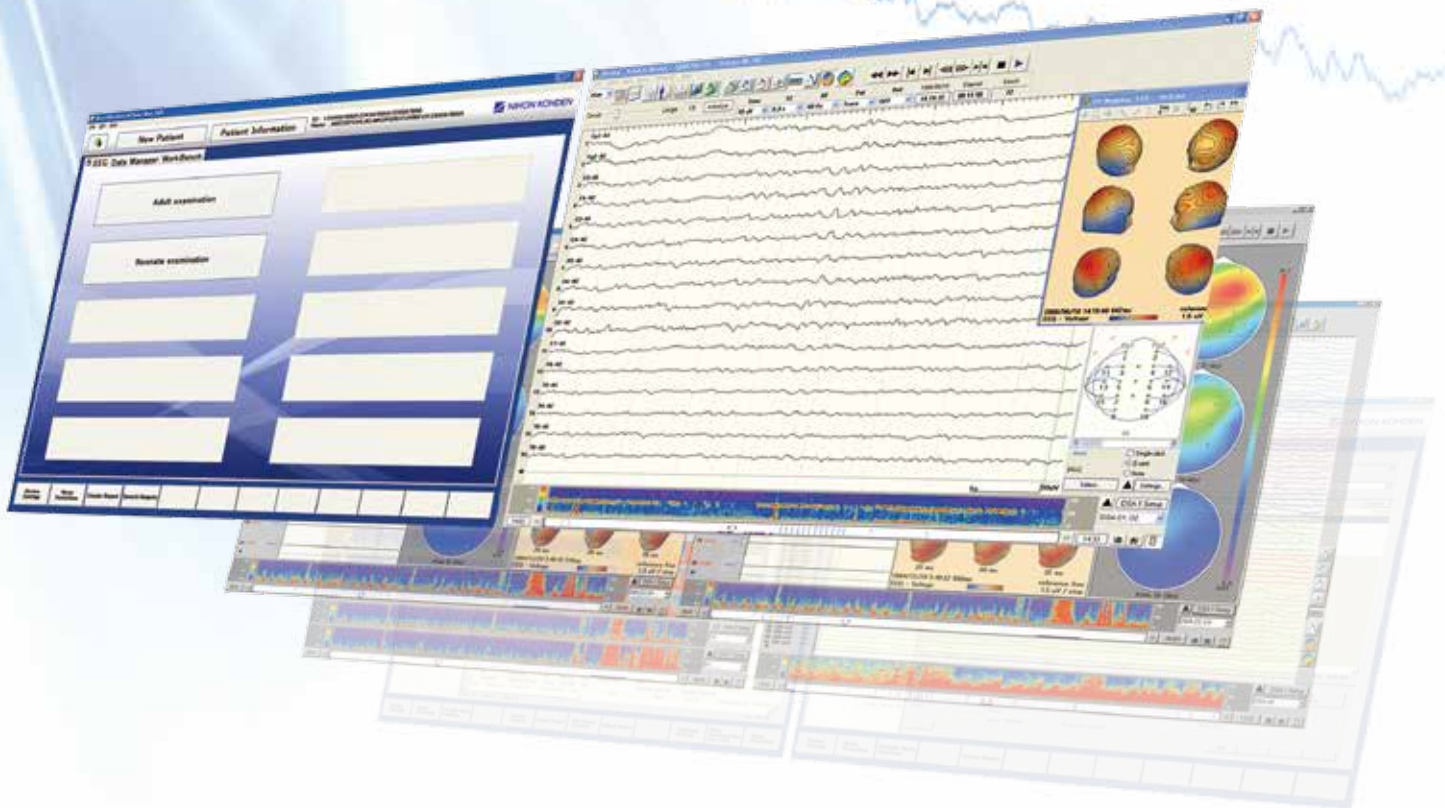


# Neurofax

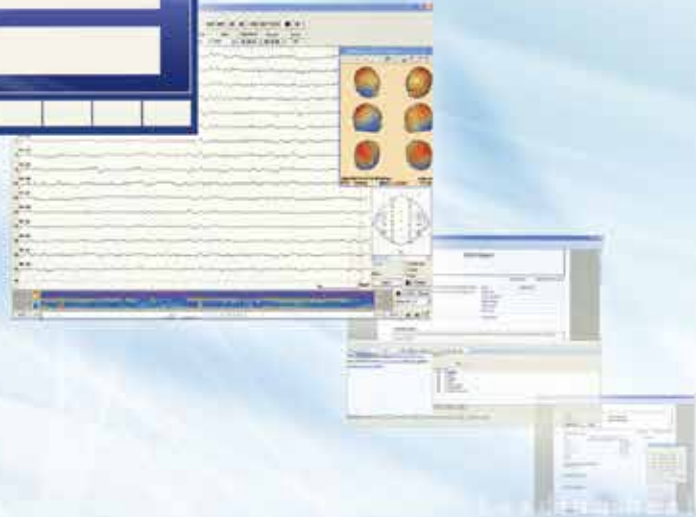
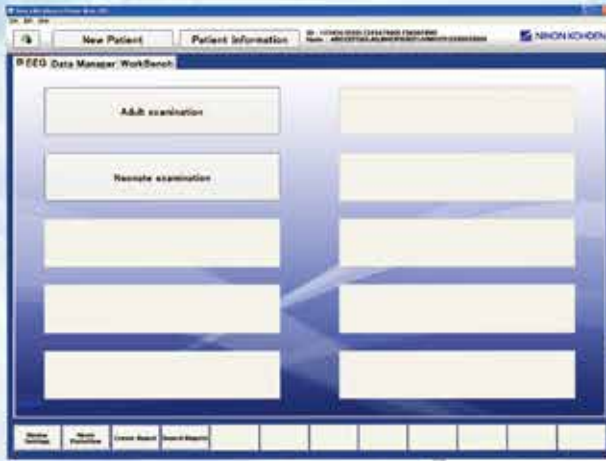
## Electroencephalograph

EEG-1200J/K



Fighting Disease with Electronics

 **NIHON KOHDEN**



**EEG-1200**

Leading healthcare in



User-friendly

Efficient

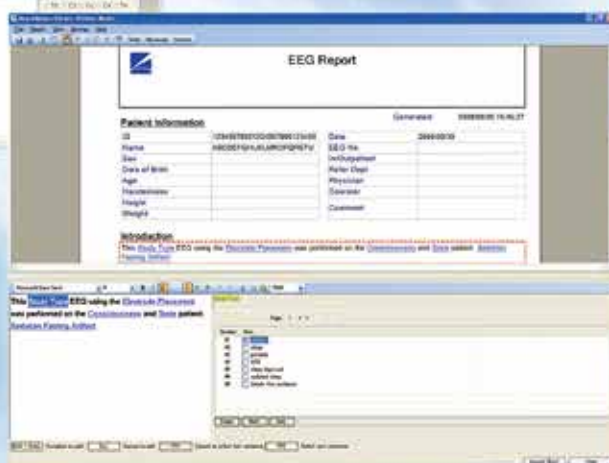
Expandable

Accurate



the future  
to the future

into the future...

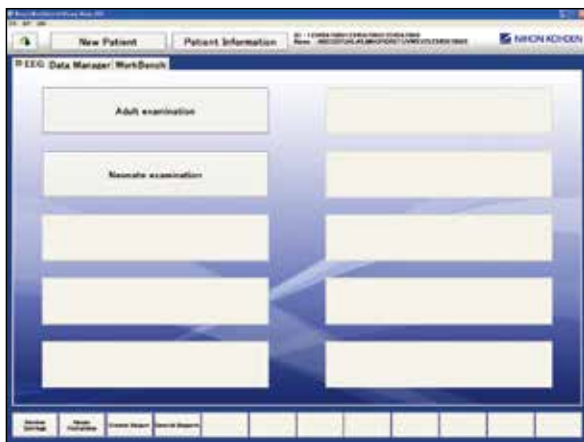


The possibilities are endless.

# User-friendly

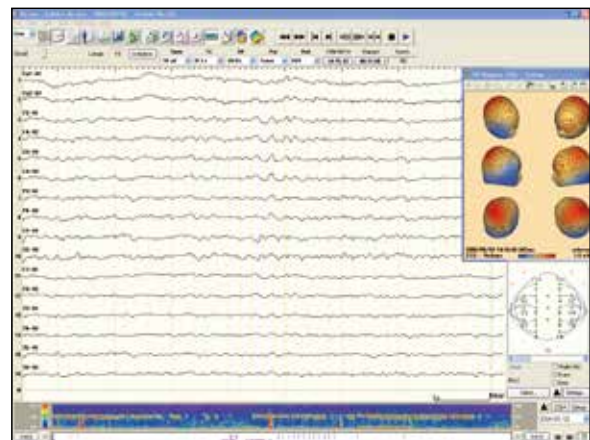
## Customizable new main menu

You can register up to 10 examination protocol buttons per page on the main menu. Each button has user-defined settings for an examination. The settings can also be changed for different examination conditions.



## 3D 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 click on a detected pattern to obtain 3D maps of the whole head. Click on a particular view to obtain a series of maps showing the change over time.

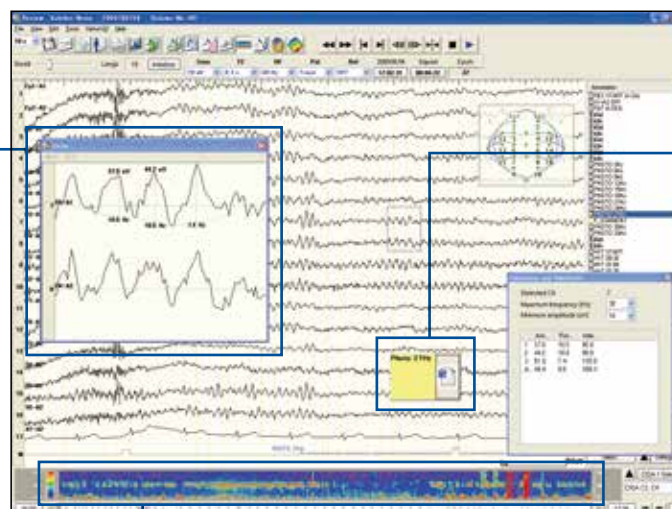


## Note window—Simple copying of waveform parts

You can save up to 1000 sections of waveforms for comparison by dragging and dropping. Up to 100 copied waveforms can be registered as sample data for comparison with other patients.

### Zoom window

You can easily magnify the waveforms by dragging them. Amplitude and latency of magnified waveforms can be measured and printed.



### Screen comment tags

Up to 100 tags can be attached to an EEG file for later reference or messages to the reviewer. The tags can include Word documents, Excel spreadsheets, images and other files.

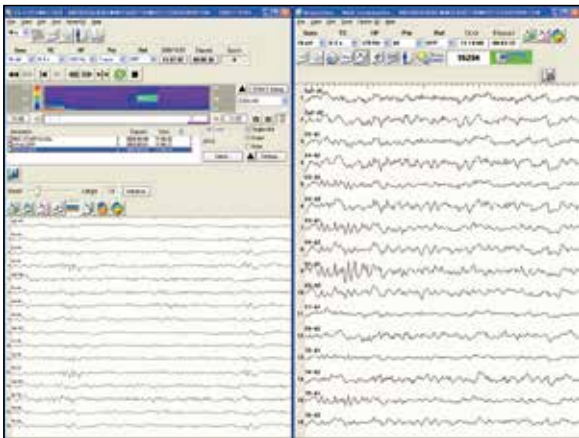
### DSA trendgraph

Frequency components of EEG and the amplitudes of each frequency are displayed as a DSA (Density Spectral Array) trend graph on the review screen and EEG Scope. The DSA lets you find epileptic seizures of a specific EEG frequency band over a long period of time at a glance.

# Efficient

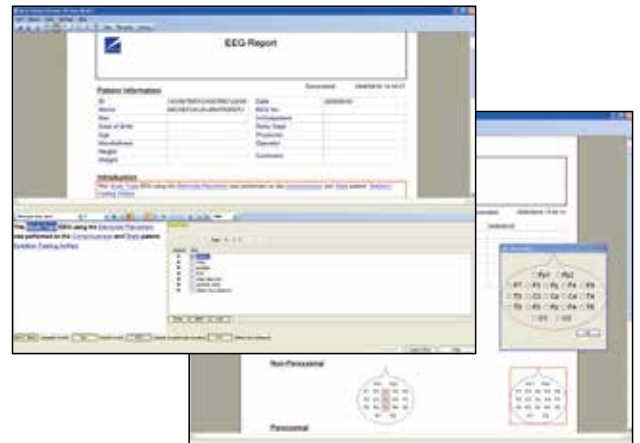
## EEG Scope— Data review during acquisition

Comparison Mode: The EEG Scope function lets you look back into and review previous epochs of EEG while simultaneously monitoring current EEG acquisition. One side of a split screen shows previous EEG epochs and the other side shows the current EEG.



## Advanced EEG report generation— Using NeuroReport (standard)

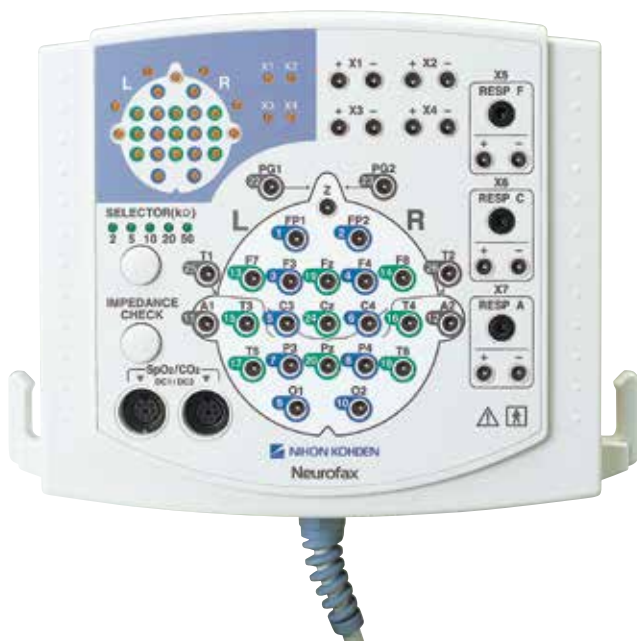
NeuroReport has various item templates for reports and you can create customized reports for different examination types, physicians or other criteria. You can also create an EMU examination report which has screen comments automatically assigned to seizure events. Reports are saved in a database and you can quickly search for reports by patient information, measurement values and other criteria.



## Junction box: JE-921A

All-in-one solution: One junction box for routine EEG and PSG.

This advanced junction box integrates 32 channel EEG input and SpO<sub>2</sub>/CO<sub>2</sub> inputs. JE-921A provides the highest signal quality and maximum reliability.



- Extra PSG sensor capability—  
Input jacks for analog signals from external instruments such as CPAP
- Unique technology—Built-in SpO<sub>2</sub>/CO<sub>2</sub> inputs
- 4 channels DC input



# Expandable

## A variety of electrode junction boxes

Nihon Kohden introduced the 256 channel system. You can also choose 64, 128 or 192 channel electrode junction boxes for surface, subdural and depth electrodes. A 10-10 system electrode junction box and smaller, mini flat junction boxes are also available to enhance the patient's comfort. The JE-120A, JE-207A, JE-209A, and JE-212A electrode junction boxes have a high sampling rate up to 10 kHz.



**192 channels**  
JE-212A junction box with JE-213A and two JE-214A mini junction boxes



**128 channels**  
JE-209A junction box with JE-213A and JE-214A mini junction boxes



**128 channels**  
JE-209A junction box with JE-210A mini junction box



**64 channels**  
JE-207A junction box with JE-213A mini junction box



**64 channels**  
JE-207A junction box with JE-208A mini junction box

## New 256 channels, JE-120A junction box

JE-120A junction box provides up to 256 channels. It can be used to determine focus of epilepsy by using grid electrode and depth electrodes. Maximum 10,000 Hz high sampling rate enables to measure High Frequency Oscillation (HFO).



- 24 bit/10 kHz high sampling rate
- SpO<sub>2</sub>/ETCO<sub>2</sub> measurement is available
- DC 16 inputs
- Up to 4 pairs of bipolar (when using JE-125AK)

JE-125AK or JE-225AK mini flat junction box (1 to 64 ch)

JE-226AK mini flat junction box (65 to 128 ch)

JE-227AK mini flat junction box (129 to 192 ch)

JE-228AK mini flat junction box (193 to 256 ch)

## EEG input over a LAN network

The QI-122A/QI-123A input box converter connects junction box to the EEG over a LAN network. This provides LAN connectivity and expandability for an EEG system in the EMU.

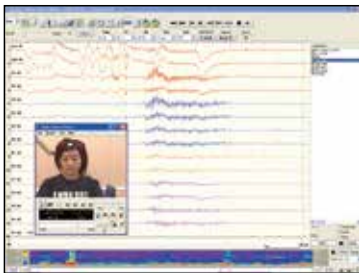


# Accurate

## Digital video software: Video-link QP-110AK

Synchronized digital video for EEG systems

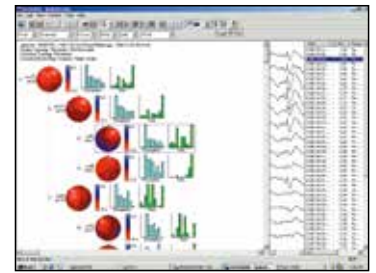
- Patient images synchronized with the EEG waveforms can be recorded
- The EEG waveforms and patient images can be saved to a hard drive
- Video clip and snapshot functions are available



## Spike detector software: Spike Detector QP-251AK

On-line and off-line spike and seizure detection vastly improved with greater accuracy

- Group spikes with hierarchical clustering
- Detailed topographic and morphologic distribution of selected group
- Spatial propagation of a spike over time
- Compare left and right hemisphere discharges with side by side traces
- Audible or visual notification of spike detection

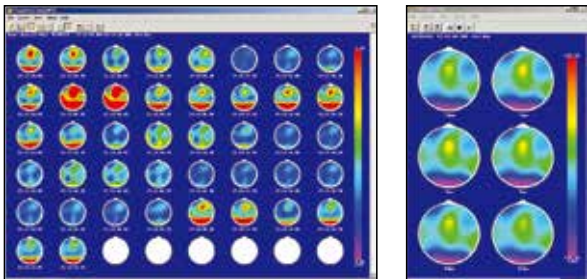


\* Product of Persys Development Corporation

## EEG mapping software: QP-220AK

Real-time and basic EEG mapping software

- Real-time and off-line mapping
- Up to eight frequency maps (seven power/voltage maps at seven different frequency bands and one map of all frequency bands)
- Power/Voltage spectra for up to 32 channels of EEG waveform data
- Edge frequency, average frequency, median frequency or peak frequency for each spectrum is indicated with a mark



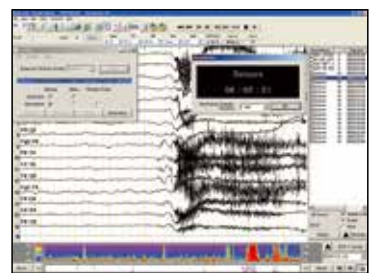
## Analysis software: EEGFocus QP-211AK

Review, mapping, remontaging, filtering and FFT

- Voltage and current source density mapping
- Automatic rejection of eye blink artifact without modifying the original data
- Automatic detection and averaging of similar waves
- Source imaging

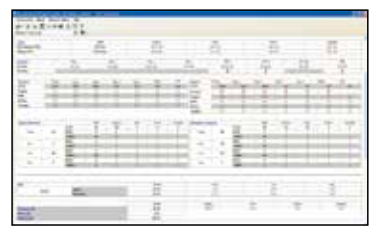
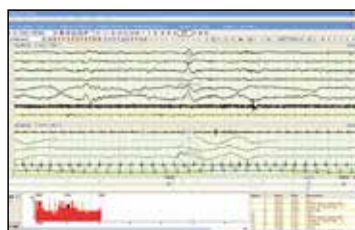
## EEG examination support software: QP-150AK

- Seizure detection and review
- Voltage mapping and waveform view
- EEG TrendScope



## Sleep analysis software: POLYSMITH Nihon Kohden Station, PS-ONLINE

- Display, store and analyze sleep data
- Reformatting of individual channel filters and sensitivities or montage
- Customize the system to best suit your needs
- Time-link trendgraphs superimposed on waveform data with epoch details



# Composition examples



## Routine EEG composition

Electroencephalograph	EEG-1200J/K
PC unit	CC-120AJ/AK
Electrode junction box	JE-921A
Flash lamp assembly	LS-703A
Photoc stimulator control unit	LS-120AJ/AK
Cart	KE-122A
Stand	KC-001A
LCD display	local purchase



## EMU Composition

Electroencephalograph	EEG-1200J/K
PC unit	CC-120AJ/AK
256 channel electrode junction box	JE-120A-256
Input box converter	QI-123A
Mini flat junction box	JE-125AK
Mini flat junction box	JE-226AK
Mini flat junction box	JE-227AK
Mini flat junction box	JE-228AK
Flash lamp assembly	LS-703A
Photoc stimulator control unit	LS-120AJ/AK
Cart with printer table	KD-029A
Stand	KC-001A
LCD display	Local purchase

## Model Suffixes

EEG-1200 has the following suffixes:  
 J: 110-127 V AC operation  
 K: 220-240 V AC operation

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