

Neurofax

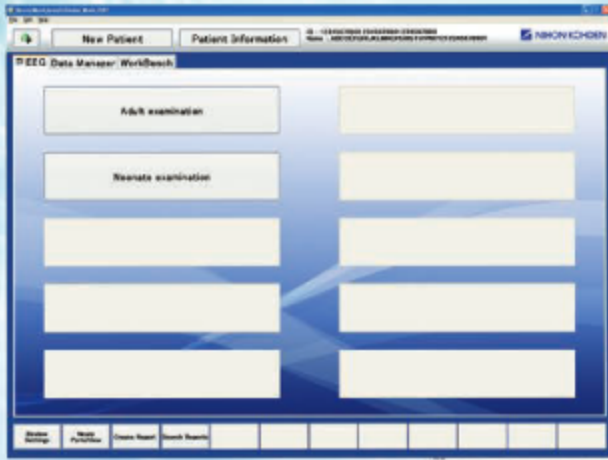
Electroencephalograph

EEG-1200J/K



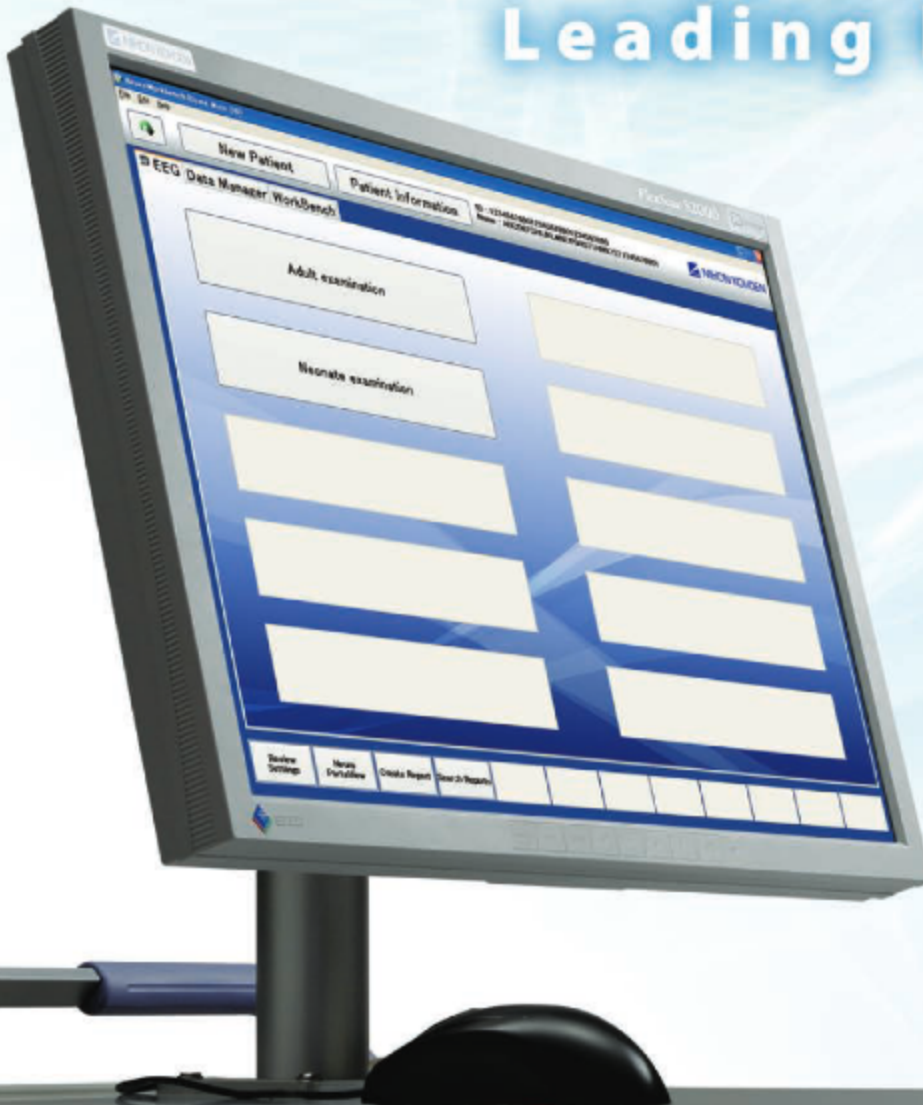
Fighting Disease with Electronics

 **NIHON KOHDEN**



EEG-1200

Leading healthcare in



User-friendly

Efficient

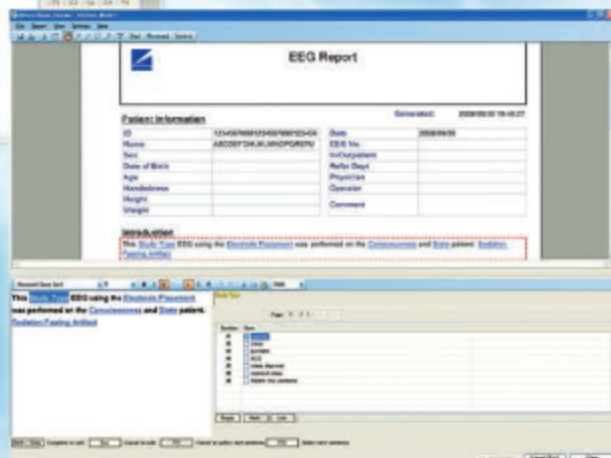
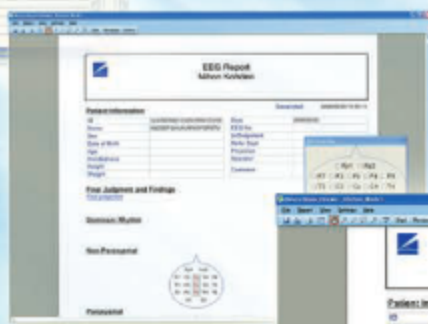
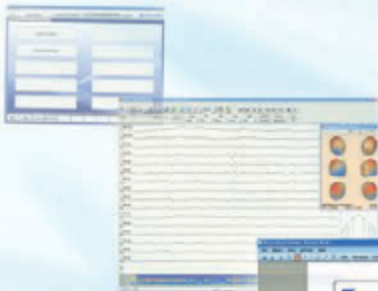
Expandable

Accurate



to the future
to the future

into the future...

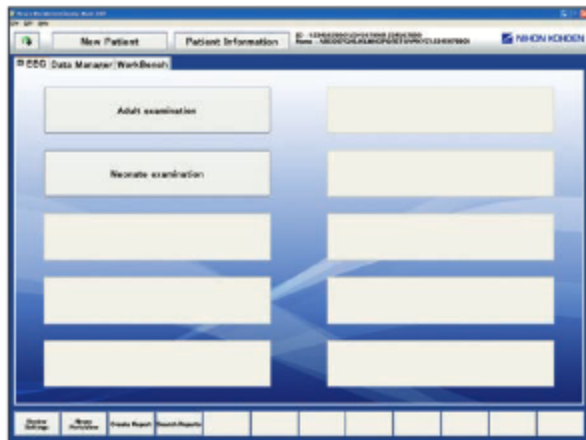


The possibilities are endless.

User-friendly

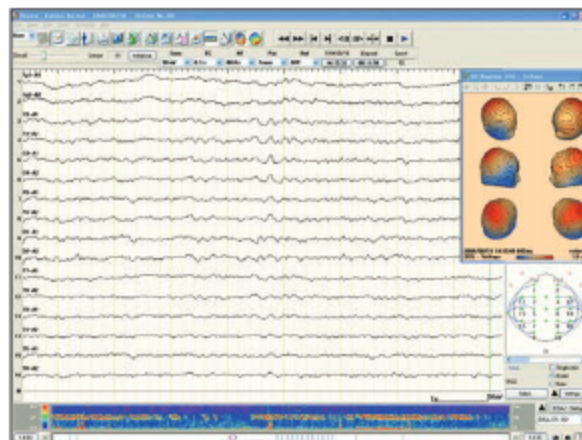
Customizable new main menu

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.

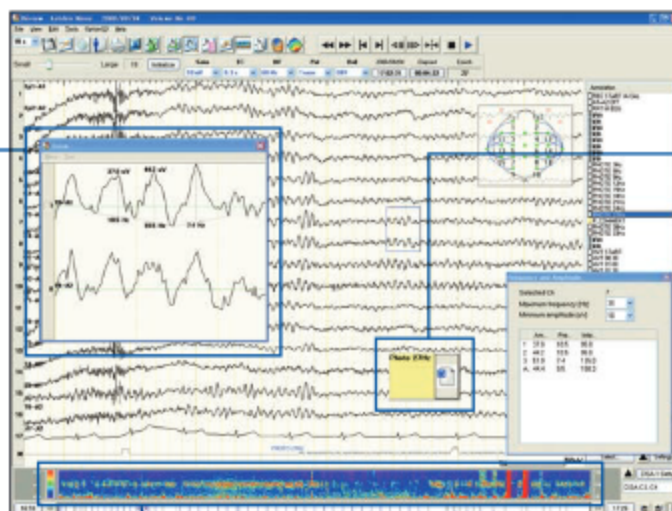


Note window—Simple copying of waveform parts

You can save up to 1,000 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.

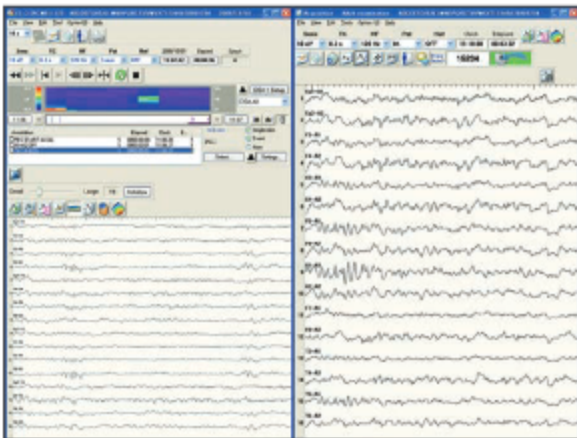
DSA trendgraph

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

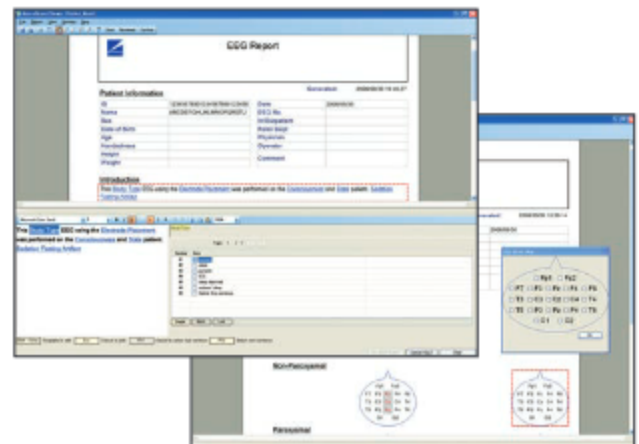
EEG Scope— Data review during acquisition

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 SpO₂/ETCO₂ inputs. JE-921A provides the highest signal quality and maximum reliability. The QI-122A input box converter connects JE-921A to the EEG over a LAN network. This provides LAN connectivity and expandability for an EEG system in the EMU and Sleep center.



- Extra PSG sensor capability—
Input jacks for analog signals from external instruments such as CPAP
- Unique technology—Built-in SpO₂/ETCO₂ inputs
- 4 channels DC input



Expandable

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) and up to 10 seconds of Time Constant makes DC shift visible.



- 24 bit/10 kHz high sampling rate
- SpO₂/ETCO₂ 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)

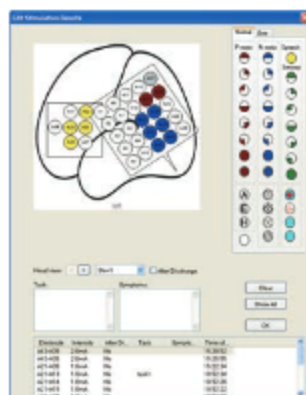
EEG input over a LAN network

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.



New Sophisticated system for functional Brain Mapping Test

Sophisticated system of switch box PE-210AK and extension unit MS-120BK with JE-120A amplifier enhances the efficiency of brain functional mapping tests, which are conducted during intracranial EEG monitoring for a patient with epilepsy. This system enables to select by software control active and reference electrodes for stimulation and to generate a complete stimulation session report.



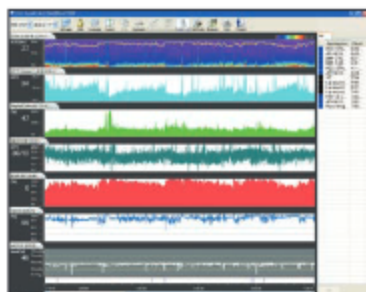
Accurate

EEG Trendprogram software:

A variety of EEG trendgraph QP-160A

Synchronized digital video for EEG systems

- Amplitude-integrated EEG
- FFT analysis such as DSA, FFT Power Ratio, etc
- Burst Suppression Ratio
- DC trendgraphs such as SpO₂, ETCO₂, and HR

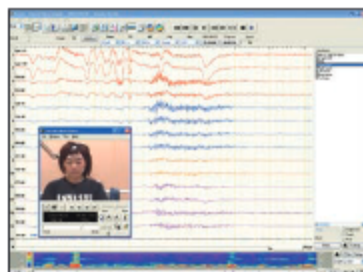


Digital video software:

Video-link QP-110AK

Synchronized digital video for EEG systems

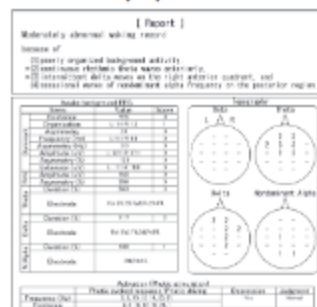
- Patient images synchronized with the EEG waveforms can be recorded
- Video clip and snapshot functions are available
- IP Camera for High-Definition video is now available



EEG Autoreport software, QP-270A

Automatic report of routine EEG with interpretation of main background activity

- Artifacts detection: blink, horizontal eye movement, EMG, earlobe activation, electrode pop
- EEG pattern analysis: Background activity, Spike, Photic activation
- Designed by Prof. Hiroshi Shibasaki and Prof. Masatoshi Nakamura



Spike detector software:

Spike Detector QP-251AK

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

Analysis software: EEGFocus QP-211AK

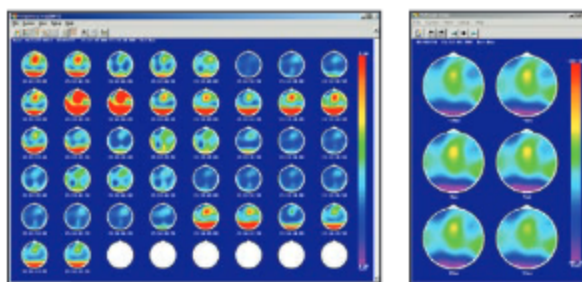
Review, mapping, remontaging, filtering and FFT

- 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 mapping software: QP-220AK

Real-time and basic EEG mapping software

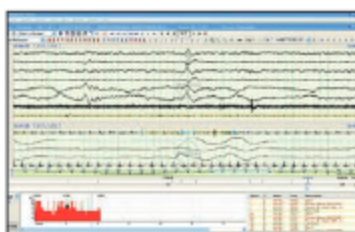
- Real-time and off-line mapping
- Up to eight frequency maps (seven power/voltage maps at seven different frequency bands and one map of all frequency bands)
- Power/Voltage spectra for up to 32 channels of EEG waveform data
- Edge frequency, average frequency, median frequency or peak frequency for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



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
Photic 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
Photic stimulator control unit	LS-120AJ/AK
Cart with printer table	KD-029A
Stand	KC-001A
LCD display	Local purchase
Extension unit	MS-120BK
Switch box	PE-210AK

Model Suffixes

EEG-1200 has the following suffixes:

J: 110-127 V AC operation

K: 220-240 V AC operation

Spike Detector software is a product of Persyst Development Corporation.

EEGFocus is a product of BESA GmbH.

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