Pioneering a New Direction in Sleep
Polysomnography
The PSG-1100 is the newest addition to the sleep amplifier family. The following are features for this new amplifier:

- IP addressable
- Internal memory
- Full 10-20 recording capability with PSG channels
- Internal pressure transducer
- Internal SpO₂
- Internal ETCO₂ with exclusive cap-ONE technology (optional)
- Dedicated EKG reference
- 100 MΩ input impedance

The JE-921 provides flexibility and configurability that is exclusive in the industry. With a full 10-20 electrode array, 14 bipolar inputs, built in ETCO₂ and SpO₂, this technology will increase ease of use and recording power for all types of EEG and polysomnographic recordings. All amplifiers are available with built in SpO₂ and external DC inputs.

Serving the best minds in neurology for over sixty years

Nihon Kohden offers the most comprehensive array of products and services in the world to address the sleep diagnostic market. We pioneered the first polysomnographs and continue to lead the way in developing cutting edge smart solutions for home sleep testing, polysomnography, combined EEG and PSG tools.

At Nihon Kohden, we focus on workflow and delivering the latest and best technology to keep your lab running smoothly. Quality has been our priority for the 60 years since the development of our first EEG technology in 1951.

Meet your sleep recording needs with Nihon Kohden amplifiers

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Control room

Seamless data acquisition is the basis for the Polysmith recording interface

Our full featured Polysmith software is used in a variety of sleep lab environments and provides a comprehensive approach to studying your patients. From easy to use scoring and recording tools to convenient remote access solutions, using Polysmith allows you to work with your entire lab’s data from the convenience of the control room.

Diagnostics are the specialty of your sleep lab. These features help technologists manage their patients and data easier.

- Live trending of multiple parameters
- Selectable video and audio quality
- On-line scoring and editing
- On-line AHI and sleep time
- On-line arousal index
- Remote viewing of live data
- Auto append
- Automatic MSLT/MWT timer and recording tool
- Off-line video monitoring

Nihon Kohden’s legacy of creating industry changing technology started with the invention of pulse oximetry in the late 1970s and now continues with cap-ONE flow through ETCO₂ technology. In an effort to overcome the difficulties of monitoring carbon dioxide in different environments, the engineers at the Nihon Kohden developed a miniaturized flow through ETCO₂ sensor for cap-ONE. The goal of this new development was not only to create technology that could monitor ETCO₂ in the critical care environment, but also to create a solution that could better monitor CO₂ in Polysomnography. The result improves the way CO₂ is monitored and interpreted.

Benefits of the cap-ONE ETCO₂ system include:
- Integrated airflow pressure interface
- Breath to breath ETCO₂ values
- No calibration
- Miniature size
- Built in interface to JE-921 and PSG-1100 amplifier
- Very low dead space for added accuracy
The Nihon Kohden EEG-1200 with PSG offers the channel set to provide your facility the best of both worlds. Capable of working independently as an EEG or PSG system or as a combined unit, Nihon Kohden offers a full range of hardware and software features to fit your needs by providing easy to use analytical software, flexible montages, built-in SpO₂ and ETCO₂, photic and more.

- Simultaneous scrolling of live PSG and EEG data in separate montages
- Separate recording modalities for daytime EEG and night time PSG
- Real time quantitative EEG trending
- Create PSG studies instantly using EEG data
- Compatible with amplifiers ranging from 27 to 192 channels
- Up to 16 DC channels available
- Full routine EEG capability
- Full PSG capability

**Hospital room - Combo system**

**Multi-modality solution - Combo system**

Type III (Nomad) recorders use the same interface as our in-lab studies for scoring. A common interface reduces training time and facilitates better tracking of your sleep records; thereby increasing efficiency. Rest assured, you can expect that our HST devices incorporate signal quality, reliability and durable construction, the hallmarks of Nihon Kohden. Nihon Kohden offers integrated home sleep testing solutions.

Run exclusively home sleep tests or manage both PSG and HST through the same software.

Smart start SpO₂ initiated recording starts the recordings with a valid SpO₂ signal.

**Record and track your home sleep testing (HST) studies via Polysmith DMS**

<table>
<thead>
<tr>
<th>Record Type</th>
<th>Nomad Type III</th>
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<tbody>
<tr>
<td>Number of channels</td>
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<tr>
<td>Airflow channels</td>
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<tr>
<td>Built-in SpO₂</td>
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<td>PLM</td>
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<td>DC channels</td>
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**Doctor’s office**

**Polysmith sleep solutions are compatible with a variety of remote access solutions**

With electronic signature, and drop down dictation fields, Surveysmith report viewer creates an efficient environment for the physician. Verifying Surveysmith report data using the exclusive interactive report feature allows the office or remote based physician the ability to navigate and verify all of the sleep data via the results in the report.

- Customizable report builder
- Customizable normative data
- Interactive report allowing navigation of the recording through the report
- Report compatibility with Excel® and Word®
- Report compatibility with PDF

**Technologist / Scoring**

**The technologist is the center of any sleep service operation**

Finding and editing patient information, querying data and customized scoring are a big part of the technician’s job.

In the ever changing sleep medicine environment, the only constant is the need for quick and efficient data scoring and processing. We have kept this in mind with the following:

- Customized event wizard
- Single click editing
- Auto updating of patient information
- LTM tool for use with LTM EEG or EMU files
- Slide show
- Custom workplaces
- Custom channel creation
- Custom watermarks
- Configurable keyboard and mouse keys
- Edit scoring from trend plots