

# The Trackit EEG/Polygraphy Recorder

An Ambulatory EEG/Sleep recorder that makes no compromises on quality.

**T**rackit™ ambulatory recorders have a track record of consistently high performance in some of the world's leading hospitals and epilepsy centers. Customers have come to rely on Trackit to produce lab quality recordings in the harshest electrical environment imaginable – the patient's home!

Trackit is the only recorder available that can record continuously for more than 96 hours without the need to change the batteries.



Why settle for anything less?

epilepsy monitoring • electroencephalography • ambulatory recording • polysomnography • icu/or monitoring • electromyography • ncv • evoked potentials

Trackit EEG

## Suitable for a wide range of recording applications

Trackit has been designed at the outset with both Ambulatory EEG and Sleep applications in mind. Its small and compact footprint, when coupled with the pediatrics backpack, makes the Trackit ideal for EEG recording applications in children and adults.

### Trackit is available in 4 major configurations:

#### Trackit 24

for applications in Ambulatory EEG  
(24 EEG + 4 AUX DC)

#### Trackit 32

for applications in Ambulatory EEG  
(32 EEG + 4 AUX DC)

#### Trackit 24P

for applications in Ambulatory EEG and sleep  
(20 EEG + 4 EEG/Poly + 4 AUX DC)

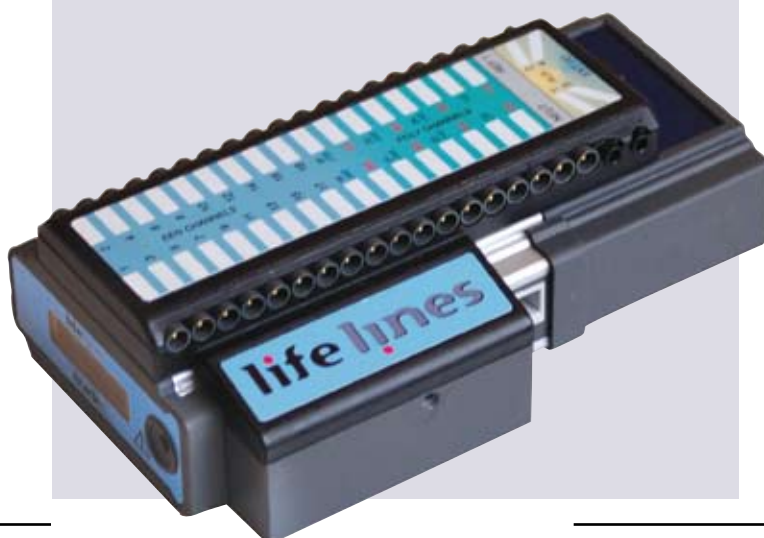
#### Trackit 18/8

for applications in Ambulatory EEG and sleep  
(18 EEG + 8 EEG/Poly + 4 AUX DC)

**Optional Trackit Sleep-Click-on** for dedicated sleep applications; provides an extra 2 effort channels, PLM, Sao2, and body position to any Trackit recorder.

**Optional Bluetooth module** using class 1 technology for a completely wireless solution

**Video EEG option** – synchronize ambulatory EEG with PC video using cable or Bluetooth wireless connection



### Uninterrupted recordings for up to 4 days

With Trackit, it is now possible to record continuously with 24 channels for up to 96 hours, without the need to change batteries or flash cards [Using Persyst Insight II™ software for Review]. Clinical decisions can be made with more confidence without the need for repeat recordings.

A backup battery and a removable battery compartment allow extended recordings for longer than 4 days when necessary. Trackit utilizes the latest innovations in Lithium Ion battery technology for extended recordings; disposable Lithium PP3 or a high capacity rechargeable battery.

### Signal quality with no compromises

Finally, an ambulatory recorder with data that you can rely on! A combination of the latest amplifier design, and a robust metal box gives a quality of recording at least as good as lab based EEG. The clinical utility of Ambulatory EEG is of paramount importance to you, so we have only used the highest quality components in the construction of the Trackit recorder.

### Intuitive set-up and operation

The set-up of a recording could not be easier when using the Trackit Wizard; this intuitive software takes you step-by-step through the set-up process. Simple controls allow traces to be viewed and electrode impedances to be checked prior to recording start. For advanced applications, the Trackit software also allows timed, periodic and start on power up recording modes.

A clear LCD display provides information about the recording status, disk and battery; a real time clock allows correlation of EEG data with patient diary events.

Read and analyse the data using Nihon Kohden 1200, 9200 EEG Review Software, Polysmith™ Sleep software, and Persyst Insight II and Reveal™ Spike and Seizure detection software.

One of the unique advantages of Trackit is the fact that all data is written in native European Data Format (EDF). This not only provides a standard for data interchange between different laboratories, but also allows data review using the industry's leading EEG/Sleep review programs; the NK1200, NK9200 EEG Review Software and Polysmith.

### Trackit Video EEG software

Trackit Video provides an unobtrusive solution for the ambulatory monitoring of EEG with time synchronized video. The Trackit Blue wireless module gives time synch information to the video file to ensure accuracy down to the nearest frame; essential to correlate behavioral and physiological information.

Trackit Video is an extension that is available to enhance the functionality of all Trackit Ambulatory EEG recorders.

### Typical usage scenario:

Trackit video when used with the Trackit Blue wireless option provides unrivalled performance and flexibility for your video recording needs. Ideal applications include;

- “Day Monitoring” of patients with Epilepsy to provide a more accurate appraisal of seizure symptomology over conventional ambulatory EEG. Trackit ambulatory EEG when used with Trackit Video provides a simple self contained solution that allows the patient freedom of movement, with minimum amount of administration and user intervention
- Trackit Video can be used in the patient's home to accurately correlate behavioral information with the patient's ambulatory EEG

### Modes of operation:

- Synchronized video acquisition and recording
- EEG recorded on the Trackit with time synch information via cable or wireless sent to the video acquisition PC
- EEG and video recorded on the PC with the Trackit in “headbox” mode
- As above with periodic video recording via user intervention – each video segment is time synchronized to the corresponding EEG
- Synchronized video playback using the Persyst Insight software

### Unique benefits:

- The only video EEG product available that provides complete and accurate synchronization with ambulatory EEG
- A completely “fail safe” solution. No host connection problems to worry about, if the video stops or the PC goes offline the Trackit always records EEG





## SPECIFICATIONS

**Max differential AC input before clipping:** 10 mV pk-pk

**Max operational DC input voltage (electrode offset):** 250mV (2.5 V using the Hi level AUX inputs)

**Bandwidth:** 0.16 – 70 Hz (-6dB)

**Max common mode input voltage:** 2V pk-pk

**Common mode rejection ration:** >110dB (driven ground)

**Input bias current:** < 25nA  
1 – 256Hz sampling rate, independently selectable on poly channels. (1 – 256Hz or 25 – 200Hz)

**A to D converter:** 16 bit with simultaneous sampling

**3 PP3 Lithium batteries** giving 96 hours life with 21 channels recording or a high capacity rechargeable battery giving 36 hours life with 21 channels recording. Length of recorder is dependent on sampling rate, number of channels and review software.

**Compact flash cards** for data storage

**Use Standard 1.5 mm touch proof electrodes**

**Native European Data Format (EDF)**

**Small size** at only 14cm x 9.5cm x 3cm (5.5 x 4 x 1.25 inches) (L x W x D)

**Weight:** < 500g (< 17.7 oz) (including disk and batteries)

*Polysmith is a registered trademark of Neurotronics, Inc.  
Trackit is a registered trademark of Lifelines Ltd.  
Insight II and Reveal are registered trademarks of Persyst Development Corp.*



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