



MediByte® Level 3 Home Sleep Testing Device – Exceeds New Guidelines!



MEDIByte™
SCREENER

Miniature 12 channel PSG diagnostic screener that records up to 24 hours on a single battery.

MediByte™ Snoring & Apnea Home Sleep Testing Device

Using patent pending technology, the next generation MediByte Home Sleep Testing (HST) device overcomes the many limitations of current devices. Constructed of smooth nylon/plastic with extra-strength LEMO™ connectors, the MediByte™ was designed for durability. Weighing less than three ounces, it is ideal for both adult and pediatric studies. Side wings attach the unit to the chest effort belt so that a holding vest or pouch is not required. On-board oximetry, pressure and body position sensors eliminate external transducers.

An auxiliary (AUX) port provides a high sample rate channel for a variety of applications, including sound, EKG, EMG, and airflow thermistor. Use the sensitive snore microphone for high frequency snoring analysis, snoring audio playback, and a derived quantitative dB sound level. Use EKG electrodes for 24-hour holter monitoring or EMG electrodes to record bruxism or other myoclonic events.

An oversized, tactile pushbutton allows the patient to indicate specific events during a recording. Studies are stored on the internal memory and downloaded via a USB computer connection.

This recorder is THE next generation of screening devices and includes RIP effort technology, SUM, and internal body position.

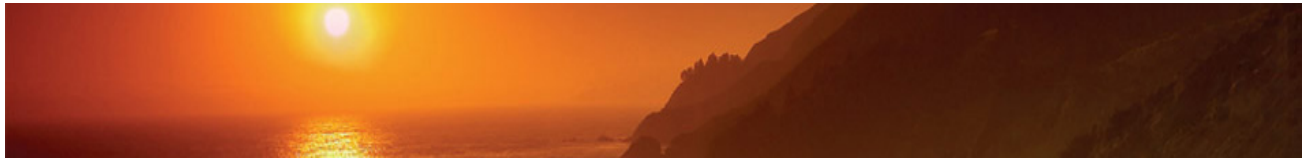
MediByte™ Software

The MediByte™ Software is an exclusive application that simplifies every step of a study, from setup to analysis to reporting. It is extremely easy to use, yet provides accurate assisted scoring and quality reports. Patient preparation uses a quick setup wizard to eliminate user error. You can program the unit to remain dormant for up to seven days and then start and stop recording at any time, for one or two nights on the same patient.

The AUX channel is user-defined within the software, providing the opportunity to analyze a number of different signal types at a very high sample rate. Desaturations, respiratory, snoring and PLM events are marked seconds after downloading with assisted scoring. There is full disclosure of the recording with complete edit and printing capabilities. Microsoft® Word templates display all the significant sleep parameters, a graphic summary of the recording, with marked events and trended signals.

This software is easy to use, yet flexible enough to analyze a number of user selected signals.





MediByte™ Carrying Case

The MediByte protective carrying case is made of high-grade plastic with an interior lining of form-fitted foam, which ensures protection for shipping and travel.

Included in the case are one MediByte, two RIP effort belts, one airflow thermistor, pulse oximeter probe with locking Lemo connection, five electrode cables, electrodes, snore microphone, EKG / EMG electrode yokes, cannulas, batteries, user guide, communication cable, complete MediByte software, and two laminated patient set-up guides.



Specifications

Available 12 Channels

- Oximetry
- Heart Rate
- Flow (pressure transducer)
- Snore (derived from pressure)
- cTherm (airflow thermistor)
- RIP Chest Effort
- RIP Abdomen Effort
- SUM (derived from RIP)
- Internal Body Position Sensor
- Aux User Channel (Audio, EKG or EMG)
- Sound dB Level (derived from Audio)
- Event Marker
- CPAP Flow
- CPAP Pressure

AUX Channel

Quantitative snoring sampled at 2000 Hz or EKG/EMG at 250 Hz

Event Marker

Oversized sealed tactile pushbutton marks events on recording

Signal Quality

24-bit ADC with fixed sampling rates for each channel

Status Indicator

Bi-color LED with color coded legend

Power Source

Single ½ AA Lithium battery

Recording Time

Up to 24 hours of continuous data

Dormant Mode

Programmable to remain in dormant state for up to seven days

Internal Memory

128 MB internal memory

Computer Interface

USB communication cable for data downloads

Physical Size

3 x 2.75 x .75 inches (76 x 70 x 20 mm); 2.85 oz incl battery (80 grams)

Standard Kit Sensors

- Oximetry finger probe
- Snore microphone
- RIP Respiratory effort belts (2)
- Oral + Nasal Cannulas (6)
- EKG / EMG lead yoke adapter
- Electrodes (30)
- Electrode Cables (5)
- Prep. Accessories

Patient Kits
(25 per case)

- Model 8115 - Oral + Nasal cannula, battery, finger probe wrap
- Model 8120 – Oral + Nasal cannula, battery, finger probe wrap, tape
- Model 8130 – includes electrodes & prep pads in addition to Model 8120 contents

MediByte Software

- Setup wizard
- Download wizard
- Full disclosure
- Assisted scoring and manual scoring
- Event editing
- Snoring and apnea report
- Cardiac report
- Bruxism report
- Limb movement report