

Introducing the SleepImage[™] System, The first and only *objective* measure of quality sleep

- > Increase referrals through partnerships with referring physicians
 - > Monitor PAP compliance objectively and assess benefit
 - > Screen patients prior to anesthesia
 - > Manage insomnia patients
 - > Screen high-risk populations for sleep disorders
 - > Support Occupational Health efforts
 - Monitor performance enhancement with improved sleep quality for students and athletes

THE NEW IMAGE OF SLEEP

Small but Powerful Tool for Your Sleep Testing Facility

The SleepImage System is the simplest and most cost effective way to measure how well people sleep. Developed by renowned sleep researchers, the SleepImage System uses Cardio Pulmonary Coupling technology to effortlessly measure sleep quality. This technology has been clinically validated and published extensively. The SleepImage System is FDA approved to assist clinicians in identifying patients who may have a sleep disorder.

The revolutionary M1[™] Sleep Quality Recorder:

Requires seconds to set up and little or no training for the patient. Simply attach the M1 to the chest with two single-use snap on electrodes. Studies may start automatically or can be scheduled to start at specific times. Record up to fifteen full 8-hour studies with a single set of coin cell batteries. Data can be uploaded through any PC computer to the SleepImage secure web site and the results are immediately available to the clinician.

- > Featherlight at less than 1 oz including batteries!
- Simple to use and wear with no connections to the face or head resulting in little or no disruption of sleep
- > Virtually unnoticeable when worn
- > Automatically starts recording when placed on a patient
- Records heart rate, breathing, actigraphy (movement), body position and snoring
- > Requires only 2 disposable electrodes
- > One-year warranty

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The SleepImage Custom Web Site:

Secure web site engineered specifically for this technology.

- > HIPAA compliant
- > Automatic data upload and analysis
- > Multiple reports for easy interpretation
- Multiple roles for clinicians, support and admin access
- Presents data as a single night's study or trend of multiple nights in a single glance
- > Multiple help and support features
- Includes Epworth Sleepiness Scale and other demographic information
- Manages the inventory of M1 Quality Recorders

Cardio Pulmonary Coupling

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The SleepImage System ...based on Cardio Pulmonary Coupling technology... was developed by Dr. Robert Thomas and his colleagues at the Beth Israel Deaconess Medical Center, an affiliate of the Harvard Medical School. The technology uses an ECG wave form to derive the heart rate and breathing rate of the patient. Fluctuations in heart rate variability have been associated with sleep disorders for many years. Combining both the heart rate and breathing rate variability into a single graphic, SleepImage allows you to evaluate the quality of sleep in a way that has never been done before.

Stable sleep, associated with **normal healthy sleep**, is displayed as "high frequency" coupling. The heart and breathing are in tune and this results in a very characteristic pattern in the upper half of the Sleep Image. In **unhealthy sleep**, a different pattern emerges with much more "low frequency" coupling which is associated with "unstable sleep". Comparing the ratio of stable over unstable sleep creates a **Sleep Quality Index**.



Technical Specifications

M1 Sleep Quality Recorder:

Total weight less then 1oz.

4 Channel recorder:

- High speed 600 sample per second data collection of Electrocardiogram (ECG)
- Actigraphy from 3 axis accelerometers
- Body position
- Snore detector

Welded impact resistant shell

Uses two coin cell (2016) batteries capable of collecting over 15 records

Large 500MB storage capacity for up to 6, 8 hour records

SleepImage web site:

Data upload, review and interpretation from any PC computer with Internet access* Validated secure web site

Reports:

Simple and easy to review, interpret and understand

*Requires small application to be downloaded from the web site.



The SleepImage System Includes:

- > M1[™] sleep quality recorder
- > Package of 2 sets of electrodes
- > Coin cell batteries (2)
- > Data upload cable
- > Electrode cable
- > Mini screwdriver for battery replacement
- > Small carrying case for all components

The SleepImage System is FDA cleared to assist clinicians in identifying patients who may have a sleep disorder.

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